

# NEGATIVE LIST FOR SUBSTANCES AND MATERIALS

**SECOP**

Secop Negative list for Substances and Materials bans or restricts the use of chemical substances in Secop` products and production processes and by Secop` suppliers, contractors and tenants.

## **The Negative list**

The substances are listed in two lists:

- The Restricted substances - shall not be used in production or maintenance processes at Secop factories neither in pure form nor in mixture with other substances.
- The Declarable substances - shall be avoided wherever possible, or minimized if they cannot be avoided for technical or reliability reasons.

## **Requirements for suppliers, contractors and tenants**

Articles and Mixtures delivered to Secop must comply with requirements of this Negative List.

Supplier must be able to sign Compliance statement for delivered articles and mixtures on request of Secop.

On demand supplier can request this Negative List in Excel format from Secop`s Purchasing Department.

The Secop Negative List in force at any given time is available on [www.secop.com](http://www.secop.com)

## Negative list – Restricted substances

Group name <sup>1)</sup>	Substance name <sup>2)</sup>	CAS no. <sup>3)</sup>	Legislation <sup>5)</sup>	Maximum allowable concentration <sup>6)</sup>	Comments/ exemptions <sup>7)</sup>
<b>Product restriction</b>					
<b>RoHS</b>					
<b>Annex II</b>	Cadmium	7440-43-9	RoHS	0.01% by weight (100 ppm) in homogenous material	EEE must comply by 22 of July 2019
	Cadmium compounds	All			
	Chromium 6+	18540-29-9			
	Chromium 6+ compounds	All			
	Lead	7439-92-1			
	Lead compounds	All			
	Mercury	7439-97-6			
	Mercury compounds	All			
	Polybrominated biphenyls (PBB)	All			
	Polybrominated diphenylethers (PBDE)	All			
	Bis(2-ethylhexyl) phthalate (DEHP)	117-81-7			
	Butyl benzyl phthalate (BBP)	85-68-7			
	Dibutyl phthalate (DBP)	84-74-2			
Diisobutyl phthalate (DIBP)	84-69-5				
<b>REACH Article 67</b>					
<b>Asbestos</b>	Actinolite	77536-66-4	Annex XVII REACH	no intentionally added content	All use is banned. E.g. insulating material. In production of articles such as gaskets, brake linings etc.
	Amosite	12172-73-5			
	Anthophyllite	77536-67-5			
	Chrysotile	12001-29-5			
	Crocidolite	12001-28-4			
	Tremolite	77536-68-6			
<b>POPs</b>	Polychlorinated terphenyls	All		0,005 % in weight	
	Pentachlorophenol and its salts and esters	87-86-5		0.1 %	

Group name 1)	Substance name 2)	CAS no. 3)	Legislation <sup>5)</sup>	Maximum allowable concentration 6)	Comments/ exemptions <sup>7)</sup>
Metals	Arsenic	7440-38-2	Annex XVII, REACH, see also Annex XIV	0.1%	Arsenic is prohibited as a salt/compound and not as a metallic element in an alloy.
	Arsenic compounds	All		0.1%	
	Cadmium	7440-43-9	Annex XVII, REACH	0.01 % in plastic material (e.g. PVC, PUR, LDPE, PET...) 0.1 % in paint on products	
	Cadmium compounds	All			
	Organotin (Mono-, di-, and trialkyl and -aryl tin compounds)	All		0.1% by weight of tin in a material	
	Dibutyltin hydrogen borate (DBB)	75113-37-0		0.1 %	
Nonyl- phenols	Nonylphenols	All	Annex XVII, REACH, Candidate list REACH	0.1%	
	Nonylphenoethoxylate	All		0.1%	
PAH	All PAH (e.g. below)		Annex XVII, REACH		In rubber compounds/ chemicals
	Benzo(a)pyrene	50-32-8		0.0001% (1ppm)	
	Dibenzo(a,h)anthracene	53-70-3		sum of all PAH: 0.001% (10ppm)	
	Benzo(a)anthracene	56-55-3			
	Benzo(e)pyrene	192-97-2			
	Benzo(j)fluoranthene	205-82-3			
	Benzo(b)fluoranthene	205-99-2			
	Benzo(k)fluoranthene	207-08-9			
Chrysene	218-01-9				
<b>Other legislation</b>					
Green House gases	HFC (Hydrofluorocarbons)	All	Kyoto Protocol EC no. 842/2006	0.1%	HFC is not prohibited but there are regulations for containment, recovery, certification, reporting, labelling
	PFC (Perfluorocarbons)	All		0.1%	
	SF6 (Sulfurhexafluoride)	2551-62-4		0.1%	
Ozone depleting substances	CFC (Chlorofluorocarbons)	All	Montreal Protocol Regulation (EC) No 1005/2009	Banned in all uses	
	Halons	All			
	Tetrachloromethane (carbon tetrachloride)	56-23-5			
	1,1,1-Trichloroethane (methylchloroform)	71-55-6			
	HBFC (Hydrobromofluorocarbons)	All			
Bromomethane (Methylbromide)	74-83-9			Use are not allowed after December 31- 2005	

Group name 1)	Substance name 2)	CAS no. 3)	Legislation <sup>5)</sup>	Maximum allowable concentration 6)	Comments/ exemptions <sup>7)</sup>
Ozone depleting substances	HCFC (Hydrochlorofluorocarbons)	All	Montreal Protocol Regulation (EC) No 1005/2009	Banned in all uses	Until December 31st, 2014 reclaimed hydrochloroflouro- carbons may be used for the maintenance or servicing of existing refrigeration, air- conditioning and heat pump equipment, provided that the container is labelled with an indication that the substance has been reclaimed and with information on the batch number and name and address of the reclamation facility (Article 11 item 3)
Persistent Organic Pollutants (POP)	POP	All	Stockholm Convention Regulation (EC) No 850/2004	content no permitted	
	Dibenzofuranes	All			
	Dioxins	All			
	Endosulphan and its related isomers	All			
	PFOS (Perfluoro octylsulfonates)	All			
	Polychlorinated biphenyls (PCB)				
	Hexachlorobenzene (HCB)	118-74-1			
	Pentachlorobenzene	608-93-5			
	Polychloronaphthalenes	All		no intentionally added content	
PFOA (Perfluorooctanoic acids)	All	EC No 850/2004 Norwegian Regulation FOR 2004-06-01 No. 922, § 2-32	0.001 % in a liquid mixture 0.1 % in a solid product 1 µg/m <sup>2</sup>		
Radioactive substances	Radioactive substances	All	-	Banned in all uses	
Metals	Lead/lead compounds in cables/cords with thermoset or thermoplastic coatings			0.03 % w/w in the surface coating other then cable/cord	
	Thallium/Thallium compounds	7440-28-0	US EPA	0.1%	
	Antimony trioxide	1309-64-4			Declare if >0,1% w/w in plastic parts

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<b>Rubber products</b>					
<b>N-Nitrosamine</b>	N-nitrosodibutylamine	924-16-3	TRGS 552		
	N-nitrosodiethanolamine	1116-54-7			
	N-nitrosodiethylamine	55-18-5			
	N-nitrosodiisopropylamine	601-77-4			
	N-nitrosodimethylamine	62-75-9			
	N-nitrosodipropylamine	621-64-7			
	N-nitroso-N-ethylaniline	612-64-4			
	N-nitroso-N-methylathylamine	10595-95-6			
	N-nitroso-N-methylaniline	614-00-6			
	N-nitrosomorpholine	59-89-2			
	N-nitrosopiperidine	100-75-4			
	N-nitrosopyrrolidine	930-55-2			
<b>Packaging material</b>					
<b>Packaging and packaging waste</b>					
<b>Metals</b>	Cadmium Mercury, Lead, Chromium 6+	7440-43-9 7439-97-6 7439-92-1 18540-29-9	94/62/EC	sum of the concentrations on component level may not exceed 0.01%	
<b>REACH Article 67</b>					
<b>Impregnation and dye</b>	Creosote	8001-58-9	Candidate List REACH	0.003% (30ppm)	
	Bis(tributyltin)oxide (TBTO)	56-35-9			
	Azo Dye	All			
	DMFu (dimethylfumarat)	624-49-7	Annex XVII, REACH	no intentionally added content	Banned in EU in 2009
<b>Other legislation</b>					
<b>Other</b>	Formaldehyde	50-00-0		no intentionally added content	
	Polychloronaphthalenes	All		no intentionally added content	
<b>Production</b>					
<b>REACH Article 67</b>					
<b>Vinyl chloride</b>	Vinylchloride	75-01-4	Annex XVII, REACH	no content permitted	
<b>CMR</b>	Carcinogens		Annex VI of EC (No) 1272/2008		
	Mutagens				
	Reproductive toxins				
<b>Solvents</b>	Benzene	71-43-2		0.1%	Except in gasoline
	Trichlorobenzene	120-82-1			
	Methylenechloride	75-09-2			

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<b>Other legislation</b>					
<b>Lubricants and additives, degreasing agents, corrosion inhibitors</b>	Mercaptobenzothiazoles	All			New products must not contain these substances. A maximum allowable concentration cannot be set.
	Mineral oil with PAH	All, e.g.:		0.1%	
	e.g. benzo-(a)-pyrene (as a PAH)	50-32-8		0.005% (50 ppm) Benz(a)pyren	
	e.g. DMSO extract as a measuring method for PAH			3% DMSO extract for the base oil	
	Morpholine	110-91-8			
	Morpholine releasing substances	All	-		New products must not contain these substances. A maximum allowable concentration cannot be set
	Nitrite	All	-	0.002% (20ppm) nitrite	Only prohibited in lubricants and degreasing agents
	Tall oil distillates which contains adipinic acid			0.1%	
	Formaldehyde	50-00-0		0.005% free formaldehyde	
	Formaldehyde releasing substances	<a href="#">All</a>		0.005% free formaldehyde	
	Amines (secondary) which facilitate the formation of nitrosamines	<a href="#">All</a>	TRGS 611 TRGS 615	0.2%	
	Short chain chlorinated paraffins (C10-C13)	85535-84-8	EC No 850/2004 Norwegian Regulation FOR 2004-06-01 No. 922	0.1%	
	Medium chain chlorinated paraffins	85535-85-9		complete ban	
<b>Solvents</b>	Cresylphosphates	All		0.5%	
	Dicresylphosphates	All		0.5%	
	Tricresylphosphates (TCP)	<a href="#">All</a>		0.5%	
	Chlorobenzene	108-90-7			
	Tetrachloroethylene ("PER")	127-18-4			Except in thermo bulbs for fire-extinguishing equipment
	Trichloroethylene ("TRI")	79-01-6			

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<b>Other restriction</b>					
<b>Plasticisers and monomers</b>	Acrylonitrile	107-13-1		0.1%	
	Butadiene (1,3 -)	106-99-0		0.1%	
<b>Formaldehyde</b>	Formaldehyde	50-00-0		0.15%	Restricted in its own, in preparations or released from materials
<b>Mineral wool fibres</b>	Man-made mineral fibres with proven carcinogenic effects	All, e.g.		0.1%	Material with carcinogenic effects
	Aluminosilicate, Refractory Ceramic Fibres		Candidate List REACH	0.1%	
	Zirconia Aluminosilicate, Refractory Ceramic Fibres				
<b>REACH Annex XIV Authorisation list</b>					
<b>Authorisation list</b>	Hexabromocyclododecane (HBCDD), alpha-hexabromocyclododecane, beta-hexabromocyclododecane gamma-hexabromocyclododecane	3194-55-6, 25637-99-4, 134237-50-6, 134237-51-7, 134237-52-8	Annex XIV, REACH		Total ban. Always check for the latest Annex XIV updates on the ECHA homepage. Total ban. Always check for the latest Annex XIV updates on the ECHA homepage.
	2,4-Dinitrotoluene (2,4-DNT)	121-14-2			
	Tris(2-chloroethyl)phosphate (TCEP)	115-96-8			
	Diarsenic pentaoxide	1303-28-2			
	Diarsenic trioxide	1327-53-3			
	Lead sulfochromate yellow (C.I.Pigment Yellow 34)	1344-37-2			
	Lead chromate	7758-97-6			
	Lead chromate molybdate supphate red (C.I. Pigment Red 104)	12656-85-8			
	Benzyl butyl phthalate (BBP)	85-68-7			
	Bis(2-ethylhexyl) phthalate (DEHP)	117-81-7			
	Dibutyl phthalate (DBP)	84-74-2			
	Diisobutyl phthalate (DIBP)	84-69-5			
	5-tert-butyl-2,4,6-trinitro-m-xylene (Musk xylene)	81-15-2			
	4,4'-Diaminodiphenylmethane (MDA)	101-77-9			

Group name 1)	Substance name 2)	CAS no. 3)	Legislation <sup>5)</sup>	Maximum allowable concentration <sup>6)</sup>	Comments/ exemptions <sup>7)</sup>
Authorisation list	Trichloroethylene	79-01-6	Annex XIV, REACH		Total ban. Always check for the latest Annex XIV updates on the ECHA homepage.
	Chromium trioxide	1333-82-0			
	Acids generated from chromium trioxide and their oligomers. Names of the acids and their oligomers: Chromic acid, Dichromic acid, Oligomers of chromic acid and dichromic acid.	7738-94-5, 13530-68-2			
	Sodium dichromate	7789-12-0, 10588-01-9			
	Potassium dichromate	7778-50-9			
	Ammonium dichromate	7789-09-5			
	Potassium chromate	7789-00-6			
	Sodium chromate	7775-11-3			
	Formaldehyde, oligomeric reaction products with aniline (technical MDA)	25214-70-4			
	Arsenic acid	7778-39-4			
	Bis (2-methoxyethyl) ether (diglyme)	111-96-6			
	1,2-dichloroethane (EDC)	107-06-2			
	2,2'-dichloro-4,4'-methylenedianiline (MOCA)	101-14-4			
	Dichromium tris(chromate)	24613-89-6			
	Strontium chromate	7789-06-2			
	Potassium hydroxyoctaoxodizincatedichromate	11103-86-9			
	Pentazinc chromate octahydroxide	49663-84-5			
	1-Bromopropane (n-propyl bromide)	106-94-5			
	Diisopentyl phthalate	605-50-5			
	1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl ester, C7 rich	71888-89-6			
	1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters	68515-42-4			
	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	84777-06-0			
	Bis(2-methoxyethyl)phthalate	117-82-8			
	Dipentyl phthalate	131-18-0			
	N-pentyl-isopentylphthalate	776297-69-9			
	Anthracene oil	90640-80-5			

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	Pitch, coal tar, high temp.	65996-93-2		
	4-(1,1,3,3-Tetranethylbutyl) phenol, ethoxylated (covering well-defined substances and UVCB substances, polymers and homologues)			
	4-Nonylphenol, branched and linear, ethoxylated (substances with a linear and/or branched alkyl chain with a carbon number of 9 covalently bound in position 4 to phenol, ethoxylated covering UVCB- and well defined substances, polymers and homologues, which include any of the individual isomers and/or combinations thereof)			
	1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	271-093-5		
	Dihexyl phthalate	201-559-5		
	Trixylyl phosphate	246-677-8		
	Sodium peroxometaborate	231-556-4		
	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]			
<b>Notes</b>	<b>General:</b> Use of the substances mentioned for analytical purposes by skilled personnel in chemical laboratories is accepted			
1)	In general: The substances are arranged in groups like metals, impregnation etc. All substances are prohibited/restricted, regardless where they are used and in which group they are mentioned.			
2)	Name(s) of substances in the group			
3)	CAS means "Chemical Abstract Service", an internationally accepted system for identifying chemical substances			
5)	Reference is given to International conventions, EC legislation or national legislation. If no text - Secop decision on restriction			
6)	Maximum allowable concentration 0,1% (w/w) if not otherwise stated. The maximum allowable concentrations for banned substances describes naturally occurring contaminations and not intentionally added substances.			
7)	Exemptions and general comments			

## Negative list – Declarable substances

Group name	Substance name	CAS no.	Example of occurrence	Comments
Metals	Beryllium	7440-41-7	In electronic components, copper strips and welding electrodes	Avoid because of carcinogenic effect
	Beryllium compounds and alloys			
	Cadmium	7440-43-9	Stabilisers in polymers, Used in pigments in paints and plastics, also present in electronics	Carcinogenic effect and environmentally hazardous
	Cadmium compounds			
	Chromium 6+ compounds		Chromium pigments, chromated surfaces, corrosion inhibitors.	
	Lead	7439-92-1	Paints and varnishes, stabilizers in plastic	When released: toxic and neurotoxic effect
	Lead compounds			
	Nickel (except in alloys)	7440-02-0	Alloys, batteries, paints, welding materials	When released: toxic, allergenic and carcinogenic effect
	Nickel compounds			
	Selenium	7782-49-2	Pigments in plastic, photo electrical coatings, diodes, rectifiers	Toxic effect
Selenium compounds				
Endocrine disruptors (EDC)	Phthalates		Plasticizer	Reprotoxic effect
	Parabens		Preservatives in cosmetics, cleaning agents and food	
	Other endocrine disruptors		e.g. in paints, lacquers and adhesives.	
Others	Organic compounds that are liquids at 25 °C and have boiling points < 250 °C		In all liquid material like cleaning agents, cutting fluids and plant protection chemicals	Should in general be reduced because of the negative health effect on human and the environmental risk
Plasticisers and monomer	Polyvinylchloride (PVC)		Use as design material. PVC can still be used for insulation on leads and cables if no better alternatives are found	
Perfumes	d-Limonene	5989-27-5	Occurrence is normally in cleaning agents, but can be present in all liquids	Allergenic effect
	Linalool	126-90-9 126-91-0		
	Cinnamaldehyde (alpha-hexyl)	104-55-2		
	Eugenol	97-53-0		
	Benzyl Benzoate	120-51-4		
	Benzyl alcohol	100-51-6		
	Salicylic, benzyl-ester	118-58-1		
	Geraniol	106-24-1		
	Citronellol	106-22-9		
	Cinnamaldehyde, alpha-pentyl	122-40-7		
	Citral	5392-40-5		
	Hydroxycitronellal	107-75-5		
	Isoeugenol	97-54-1		
	Benzyl cinnamate	103-41-3		
	Methyl heptine carbonate	111-12-6		
	Cinnamaldehyd	104-55-2		
Amylcinnamyl alcohol	101-85-9			
Coumarin	91-64-5		Toxic if swallowed	

Group name	Substance name	CAS no.	Example of occurrence	Comments
Methacrylates and acrylates	Ethylacrylates		Used typically in glues and adhesives	
	Methylacrylates			
Epoxy and isocyanate resins (PUR)	Bisphenol A-diglycidyl ether			
	MDI (-diphenylmethane-4,4'-diisocyanate)			
	MDI (-diphenylmethane-2,4'-diisocyanate)			
	MDI (-diphenylmethane-2,2'-diisocyanate)			
	TDI (toluen-2,4-diisocyanate)			
	TDI (toluen-2,6-diisocyanate)			
Rubber chemicals	Aminobiphenyl (4-) + salts		Dye	
	Benzidine + salts		Dye	
	Thiocarbamide		Plastics & Rubber	
Lubricants	CMR-Substances, other than stated on the black list			
	Environmentally harmful substances (Classified with 'N' in Europe) other than stated on the Black list			
	Other substances that might inhibit or reduce microbial growth			
	VOC's (Volatile organic compounds)			
	Isothiazolones	All		
REACH -SVHC	<p>Following substances are not prohibited, but if the concentration is above 0,1 % in the supplied article, information must be provided to Secop. Restriction is applied to the full up-to-date Candidate list for SVHC as defined on the ECHA website.  <a href="http://echa.europa.eu/web/guest/candidate-list-table">http://echa.europa.eu/web/guest/candidate-list-table</a></p> <p>Secop always applies the stricter concentration limit, if substance belongs also to other Secop Negative list group.</p>			

<b>Title (link):</b>		<b>Number/Year:</b>
<b>Regulation</b>	<u><a href="#">concerning the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH)</a></u>	<b>(EC) No 1907/2006</b>
	<u><a href="#">Annex XVII EC Regulation REACH, last revision (EU) No 2016/1017</a></u>	<b>2016</b>
	<u><a href="#">Candidate List, REACH (always check latest update)</a></u>	<b>2018</b>
	<u><a href="#">Authorization list, REACH, last revision (EU) No 2017/999 (always check latest update)</a></u>	<b>2017</b>
<b>Regulation</b>	<u><a href="#">on classification, labelling and packaging of substances and mixtures (CLP/GHS)</a></u>	<b>(EC) No 1272/2008</b>
<b>Directive</b>	<u><a href="#">on Restriction of the use of certain hazardous substances in electrical and electronic equipment (recast) (RoHS)</a></u>	<b>2011/65/EU</b>
<b>Directive</b>	<u><a href="#">amending Annex II to Directive 2011/65/EU of the European Parliament and of the Council as regards the list of restricted substances</a></u>	<b>2015/863/EU</b>
<b>Regulation</b>	<u><a href="#">on persistent organic pollutants</a></u>	<b>(EC) No 850/2004</b>
<b>Regulation</b>	<u><a href="#">amending Regulation (EC) No 850/2004 on persistent organic pollutants as regards Annex I.</a></u>	<b>(EC) No 519/2012</b>
	<u><a href="#">The Stockholm Convention on Persistent Organic Pollutants</a></u>	<b>2001, 2009</b>
<b>Regulation</b>	<u><a href="#">on fluorinated greenhouse gases and repealing Regulation (EC) No 842/2006</a></u>	<b>(EU) No 517/2014</b>
	<u><a href="#">The Kyoto Protocol to reduce emission of Greenhouse gasses</a></u>	<b>1997</b>
<b>Regulation</b>	<u><a href="#">on substances that deplete the ozone layer</a></u>	<b>(EC) No 1005/2009</b>
	<u><a href="#">Montreal protocol</a></u>	<b>1987, 1999</b>
<b>Directive</b>	<u><a href="#">on packaging and packaging waste</a></u>	<b>94/62/EC</b>
	<u><a href="#">Wall Street Reform and Consumer Protection Act. Section 1502.</a></u>	<b>2010</b>
	<u><a href="#">EPA, Ozone Layer Protection</a></u>	
	<u><a href="#">Restrictions on N-nitrosamines (TRGS 611)</a></u>	<b>2007</b>
	<u><a href="#">Restrictions on N-nitrosamines (TRGS 615)</a></u>	
	<u><a href="#">Restrictions on N-nitrosamines (TRGS 552)</a></u>	
<b>Regulation</b>	<u><a href="#">on restrictions in using environmentally hazardous chemicals and other products (Product Regulations).</a></u>	<b>FOR 2004-06-01 nr 922</b>