

## List of prohibited substances

In articles, materials and chemical products (TDOK 2012:22 ver.10 and TDOK 2010:310 ver.10)

Substance	CAS#	Permitted uses (articles and materials)	Permitted uses (chemical products)
<b>Acrylamide</b>	79-06-01		
<b>Anthracene</b>	120-12-7		
<b>Anthracene oil</b>	90640-80-5, 90640-81-6, 91995-15-2	Creosote railway sleepers and creosote posts Asphalt coating	Creosote for impregnation of wood Bitumen for asphalt coating
<b>Arsenic and arsenic compounds</b>	Substances listed on the candidate list, REACH annex XIV or annex XVII*.		
<b>Benzene</b>	71-43-2		Fuels in environmental class 1 is allowed to contain low levels of benzene, according to the Swedish Fuel quality act (SFS) 2011:319
<b>Bisphenol A</b>	80-05-7	Residues from manufacturing in electrical and electronic products	
<b>Lead and lead compounds</b>	Substances listed on the candidate list, REACH annex XIV or annex XVII*.	** Directive 2011/65/EU and 2006/66/EG Detonators	Distemper paints in environments with special cultural requirements
<b>Boric acid</b>	10043-35-3, 11113-50-1		
<b>Phtalates</b>			
-Benzyl butyl Phtalate (BBP)	85-68-7	**Directive 2011/65/EU	
-Dibutyl Phtalate (DBP)	84-74-2	**Directive 2011/65/EU	
-Di-(2-ethylhexyl)Phtalate (DEHP)	117-81-7	**Directive 2011/65/EU	
-Diisobutyl Phtalate (DIBP)	84-69-5	**Directive 2011/65/EU	
<b>Hexabromocyclododecane (HBCDD)</b>	25637-99-4, 3194-55-6, 134237-51-7, 134237-50-6, 134237-52-8		
<b>Hexachlorobenzene (HCB)</b>	118-74-1		
<b>Cadmium and cadmium compounds</b>	Substances listed on the candidate list, REACH annex XIV or annex XVII*.	**Directive 2011/65/EU and 2006/66/EG	
<b>Short chain chloroparaffins (SCCP)</b>	85535-84-8		
<b>Chromium (VI) compounds</b>	Substances listed on the candidate list, REACH annex XIV or annex XVII*.	** Directive 2011/65/EU	
<b>Mercury and mercury compounds</b>	Substances listed on the candidate list, REACH annex XIV or annex XVII*.	**Directive 2011/65/EU	
<b>Sodium borates</b>	1303-96-4, 12179-04-3, 1330-43-4		
<b>Nonylphenol and Ethoxylated nonylphenol</b>	Substances listed on the candidate list, REACH annex XIV or annex XVII*.		

<b>Organic Phosphates</b>			
-Tris (2-chloroethyl) phosphate (TCEP)	115-96-8		
<b>Pentachlorophenol (PCP)</b>	87-86-5, 131-52-2		
<b>Highly fluorinated substances</b> (e.g. PFOA and PFOS)	Substances listed on the Candidate list, REACH annex XIV, annex XVII* or the POPs Regulation.		
<b>Polybrominated diphenylether (PBDE)</b>	Substances listed on the Candidate list, REACH annex XIV, annex XVII* or the POPs Regulation.		
<b>Tinorganic compounds</b>	Substances listed on the candidate list, REACH annex XIV or annex XVII*.		
<b>Pesticides</b>			
-Biocidal products	All	Can be used in impregnated wood and building materials that are NTR certified.***	Allowed uses: - In small-scale pest control, e.g. rats and wasps - As wood preservatives - As slime prevention - As antifouling - As preservative in water-based products - As disinfectant for human hygiene
-Herbicides/Plant protection products	All		Within the vegetation control program for railway and for control of giant hogweed ( <i>Heracleum mantegazzianum</i> ) and persian hogweed ( <i>Heracleum persicum</i> ) May also be used in the control of japanese knotweed ( <i>Reynoutria japonica</i> ), giant knotweed ( <i>Reynoutria sachalinensis</i> ) and bohemian knotweed ( <i>Reynoutria × bohemica</i> ) <sup>1</sup>
<b>Chlorofluorocarbons (CFC), Chlorofluorohydrocarbons (HCFC), Halon compounds</b>	Substances regulated by the EC-regulation No 1005/2009 on substances that deplete the ozone layer.		
<b>Dinitrotoluene</b>	Substances listed on the candidate list, REACH annex XIV or annex		

<sup>1</sup> Giant hogweed (*Heracleum mantegazzianum*) and persian hogweed (*Heracleum persicum*) is listed on the EU's list of Invasive Alien species of Union concern. The list is contained in Implementing Regulation (EU) 2016/1141. The invasive species japanese knotweed (*Reynoutria japonica*), giant knotweed (*Reynoutria sachalinensis*) and bohemian knotweed (*Reynoutria × bohemica*) is not regulated by any law but poses a problem for the Swedish Transport Administration. Control of these species may be carried out with approved methods according to the conditions in the Swedish Chemicals Agency's product approval for the pesticide.

	XVII*.		
<b>Glycol ethers</b>			
-2-Ethoxyethanol	110-80-5		
-2-Metoxyethanol	109-86-4		
-2-Ethoxyethyl acetate	111-15-9		
<b>Benzo(a)pyrene</b>	50-32-8	Creosote railway sleepers and creosote posts Asphalt coating	

\* Prohibitions on substances listed in Annex XVII apply only to the uses specified for each restriction.

\*\*Regarding products covered by the directives for electronic products ([RoHS, 2011/65/EU](#)) or batteries ([2006/66/EC](#)), substances are allowed to be included the Swedish Transport Administration's operations for the applications that are exempted in the directives according to decision from the EU.

\*\*\* NTR certified wood and building materials must be classified based on the criteria in table 1 in TDOK 2012:22/TDOK 2010:310, based on its chemical content.