# REACH SVHC CANDIDATE LIST

ECHA released the first candidate list of 15 SVHCs for authorization in Aug. 2008, the second SVHC candidate list in Jan. 2010, the third candidate list in June 2010, the fourth candidate list in December 2010, the fifth candidate list in June 2011, the sixth candidate list in December 2011, the seventh candidate list in June 2012, the eighth candidate list in December 2012, the ninth candidate list in June 2013, the tenth candidate list in December 2013, the eleventh candidate list in June 2014, the twelfth candidate list in December 2014, the thirteenth list in June 15, 2015 and the fourteenth list in December 2015, the fifteenth list in June 2016, the sixteenth list in January 2017, the seventeenth list in July 2017, the eighteenth list in January 2018, the nineteenth list in June 2018, the twentieth list in January 2019, the twenty-first list in July 2019, the twenty-second list in January 2020, the twenty-third list in June 2020, the twenty-fourth list in January 2021, the twenty-eighth list in January 2021, the twenty-ninth list in June 2023, the thirtieth list in January 2024, the thirty-first list in June 2024, the thirty-second list in November 2024, the thirty-third list in January 2025.

#### ■ The Announcement of the First 15 SVHCs List

The European Chemical Agency (ECHA) has formally included 15 substances identified as Substances of Very High Concern (SVHC) in the candidate list of authorization on 28 October 2008.

The list of these 15 SVHCs and possible applications are shown below:

Substance Name	CAS No.	EC No.	Reason for inclusion	Examples of use(s)
4,4'-Diaminodiphenylmethane	101-77-9	202-974-4	Carcinogenic (Article 57a)	Curing agent for epoxy resin in
(MDA)				PCB, preparation of PU, azo dyes
				in garments.
Benzyl butyl phthalate (BBP)	85-68-7	201-622-7	Toxic for reproduction (Article 57c)	Plasticizer for resin, PVC,
			Endocrine disrupting properties	acrylics.
			(Article 57(f) - human health)	
Bis (2-ethylhexyl) phthalate	117-81-7	204-211-0	Toxic for reproduction (Article 57c)	Plasticizer for resin, PVC, blister
(DEHP)			Endocrine disrupting properties	
			(Article 57(f) - environment)	
			Endocrine disrupting properties	
			(Article 57(f) - human health)	
Dibutyl phthalate (DBP)	84-74-2	201-557-4	Toxic for reproduction (Article 57c)	Plasticizer, in adhesives and
(updated entry)			Endocrine disrupting properties	paper coatings; insect repellent
			(Article 57(f) - human health)	for textiles.
			Updated in Jan. 23 2024: Endocrine	Updated in Jan. 23 2024: Metal
			disrupting properties	working fluids, washing and
			(Article 57(f) - environment)	cleaning products, laboratory
				chemicals and polymers.
Anthracene	120-12-7	204-371-1	PBT (Article 57d)	Source of dyestuff
5-tert-butyl-2,4,6-trinitro-m-	81-15-2	201-329-4	vPvB (Article 57e)	Cosmetics and soap perfumes.



Substance Name	CAS No.	EC No.	Reason for inclusion	Examples of use(s)
Xylene (musk xylene)				
Alkanes, C10-13, chloro	85535-84-8	287-476-5	PBT (Article 57d)	Leather coating, plasticizer in
(Short Chain Chlorinated			vPvB (Article 57e)	PVC and chlorinated rubber,
Paraffins)				flame retardant in plastic &
				textiles.
Cobalt Dichloride	7646-79-9	231-589-4	Carcinogenic (Article 57a)	Moisture indicator in silica gel,
			Toxic for reproduction (Article 57c)	absorbent.
Hexabromocyclododecane	25637-99-4	247-148-4	PBT (Article 57d)	Flame retardant used in HIPS
(HBCDD)	3194-55-6	and		and textiles.
	(134237-50-6)	221-695-9		
	(134237-51-7)			
	(134237-52-8)			
Sodium dichromate	7789-12-0	234-190-3	Carcinogenic (Article 57a)	Chrome-tanning of leather,
	10588-01-9		Mutagenic (Article 57b)	corrosion inhibitor in paints,
			Toxic for reproduction (Article 57c)	mordant in textile dyein.
Bis(tributyltin) oxide (TBTO)	56-35-9	200-268-0	PBT (Article 57d)	Pesticizer, fungicide in paint.
Diarsenic pentoxide	1303-28-2	215-116-9	Carcinogenic (Article 57a)	Insecticides, weed killer, wood
				preservatives, coloured glass,
				dyeing and printing.
Diarsenic trioxide	1327-53-3	215-481-4	Carcinogenic (Article 57a)	Weed killers, timber
				preservatives, manufacture of
				special glass.
Triethyl arsenate	15606-95-8	427-700-2	Carcinogenic (Article 57a)	Intermediates for
				semi-conductor.
Lead hydrogen arsenate	7784-40-9	232-064-2	Carcinogenic (Article 57a)	Insectides.
			Toxic for reproduction (Article 57c)	

### ■ The Announcement of the Second 13 SVHCs List

The European Chemical Agency (ECHA) officially published the second SVHC candidate list which includes a total of 29 substances on January 13th, 2010.

ECHA added the substance "Acrylamide" back to the candidate list on March 30th.

ECHA comprised a consolidation of the entries of aluminosilicate refractory ceramic fibres (Al-RCF) and zirconia aluminosilicate refractory ceramic fibres (ZrAl-RCF) included in the List in January 2010 and December 2011 on June 18th, 2012.

The list of these 13 SVHCs and possible applications are shown below:

Substance Name	CAS No.	EC No.	Reason for inclusion	Examples of use(s)
2,4-Dinitrotoluene	121-14-2	204-450-0	Carcinogenic (Article 57a)	2,4-dinitrotoluene is used in the production
				of toluene diisocyanate, which is used for the
				manufacture of flexible polyurethane foams.



Substance Name	CAS No.	EC No.	Reason for inclusion	Examples of use(s)
			neason for melasion	
				The substance is also used as
				gelatinizing-plasticizing agent
Anthracene oil	90640-80-5	292-602-7	Carcinogenic (Article 57a)	The substances are mainly used in the
			PBT (Article 57d)	manufacture of other substances such as
			vPvB (Article 57e)	anthracene and carbon black. They may also
Anthracene oil,	91995-17-4	295-278-5	Carcinogenic (Article 57a)	be used as reducing agents in blast furnaces,
anthracene paste,			Mutagenic (Article 57b)	as components in bunker fuel, for
distn.lights			PBT (Article 57d)	impregnating, sealing and corrosion
			vPvB (Article 57e)	protection.
Anthracene oil,	91995-15-2	295-275-9	Carcinogenic (Article 57a)	
anthracene paste,			Mutagenic (Article 57b)	
anthracene fraction			PBT (Article 57d)	
			vPvB (Article 57e)	
Anthracene oil,	90640-82-7	292-604-8	Carcinogenic (Article 57a)	
anthracene-low			Mutagenic (Article 57b)	
			PBT (Article 57d)	
			vPvB (Article 57e)	
Anthracene oil,	90640-81-6	292-603-2	Carcinogenic (Article 57a)	
anthracene paste			Mutagenic (Article 57b)	
			PBT (Article 57d)	
			vPvB (Article 57e)	
Diisobutyl phthalate	84-69-5	201-553-2	Toxic for reproduction	Diisobutyl phthalate is used as plasticiser for
(DIBP)			(Article 57c)	nitrocellulose, cellulose ether, polyacrylate
			Endocrine disrupting	and polyacetate dispersions, and as a gelling
			properties (Article 57(f) -	aid in combination with other plasticisers,
			human health)	which are widely used for plastics, lacquers,
				adhesives, explosive material and nail polish.
Lead chromate	7758-97-6	231-846-0	Carcinogenic (Article 57a)	Lead chromate is used for manufacturing
			Toxic for reproduction	pigments and dyes, and as a pigment or
			(Article 57c)	coating agent in industrial and maritime pain
				products or varnishes. Further potential uses
				may be associated with the formulation of
				detergents and bleaches, photosensitive
				materials, the manufacture of pyrotechnic
				powder or the embalming /restoring of art

Substance Name	CAS No.	EC No.	Reason for inclusion	Examples of use(s)
Lead chromate molybdate sulphate red (C.I. Pigment Red 104)		235-759-9	Carcinogenic (Article 57a)Toxic for reproduction (Article 57c)	Lead chromate molybdate sulphate red (C.I. Pigment Red 104) is used as a colouring, painting and coating agent in sectors such as the rubber, plastic and paints, coatings and varnishes industries. Applications comprise the production of agricultural equipment, vehicles and aircraft as well as road and airstrip painting.
Lead sulfochromate yellow (C.I. Pigment Yellow 34)	1344-37-2	215-693-7	Carcinogenic (Article 57a)Toxic for reproduction (Article 57c)	Lead sulfochromate yellow (C.I. Pigment Yellow 34) is used as a colouring, painting and coating agent in sectors such as the rubber, plastic and paints, coatings and varnishes industries. Applications comprise the production of agricultural equipment, vehicles and aircraft as well as road and airstrip painting. The substance is further used for camouflage or ammunition marking in the defence area.
Tris(2-chloroethyl)phosph ate	115-96-8	204-118-5	Toxic for reproduction (Article 57c)	Tris(2-chloroethyl)phosphate is mainly used as an additive plasticiser and viscosity regulator with flame-retarding properties for acrylic resins, polyurethane, polyvinyl chloride and other polymers. Other fields of application are adhesives, coatings, flame resistant paints and varnishes. The main industrial branches to use TCEP are the furniture, the textile and the building industry.
Pitch, coal tar, high temp.	65996-93-2	266-028-2	Carcinogenic (Article 57a) PBT (Article 57d) vPvB (Article 57e)	Pitch, coal tar, high temp. is mainly used in the production of electrodes for Industrial applications. Smaller volumes are dedicated to specific uses such as heavy duty corrosion protection, special purpose paving, manufacture of other substances and the production of clay targets.
Acrylamide	79-06-1	201-173-7	Carcinogenic (Article 57a)  Mutagenic (Article 57b)	Acrylamide is almost exclusively used for the synthesis of polyacrylamides, which are used in various applications, in particular in waste water treatment and paper processing. Minor uses of acrylamide comprise the preparation of polyacrylamide gels for research purposes and as a grouting agent in civil.

# ■ The Announcement of the Third 8 SVHCs List

The European Chemicals Agency (ECHA) has added 8 extra chemical Substances of Very High Concern (SVHC) to the Candidate List on 18th June 2010 on top of the 15 SVHC that had been regulated in October 2008, and 15 SVHC in January 2010.

The list of these 8 SVHCs and possible applications are shown below:

Substance Name	CAS No.	EC No.	Reason for inclusion	Examples of use(s)
Trichloroethylene	79-01-6	201-167-4	Carcinogenic (Article 57a)	Trichloroethylene is mainly used as intermediate in the manufacture of chlorinated and fluorinated organic compounds.  Other uses are for cleaning and degreasing of metal parts or as solvent in adhesives.
Boric acid	10043-35-3, 11113-50-1	233-139-2, 234-343-4	Toxic for reproduction (Article 57c)	Boric acid is widely used on account of its consistency-influencing, flame-retarding, antiseptic and preservative properties.  It is a component of detergents and cleaners, adhesives, toys, industrial fluids, brake fluids, glass, ceramics, flame retardants, paints, disinfectants, cosmetics, food additives, fertilisers, insecticides and other products.
Disodium tetraborate, anhydrous	1330-43-4 12179-04-3 1303-96-4	215-540-4	Toxic for reproduction (Article 57c)	Disodium tetraborate and tetraboron disodium heptaoxide form the same compounds in aqueous solutions.
Tetraboron disodium heptaoxide, hydrate	12267-73-1	235-541-3	Toxic for reproduction (Article 57c)	Uses include a multitude of applications, e.g. in detergents and cleaners, in glass and glass fibres, ceramics, industrial fluids, metallurgy, adhesives, flame retardants, personal care products, biocides, fertilisers.
Sodium chromate	7775-11-3	231-889-5	Carcinogenic (Article 57a) Mutagenic (Article 57b) Toxic for reproduction (Article 57c)	Sodium chromate is mainly used as an intermediate in the manufacture of other chromium compounds as well as a laboratory analytical agent, but this use is limited. Other potential uses are mentioned in the literature but whether they occur in the EU is not clear.



Substance Name	CAS No.	EC No.	Reason for inclusion	Examples of use(s)
Potassium chromate	7789-00-6	232-140-5	Carcinogenic (Article 57a)	Potassium chromate is used as a corrosion
			Mutagenic (Article 57b)	inhibitor for treatment and coating of
				metals, for manufacture of reagents,
				chemicals and textiles, as a colouring
				agent in ceramics, in the manufacture of
				pigments/inks and in the laboratory as
				analytical agent.
Ammonium dichromate	7789-09-5	232-143-1	Carcinogenic (Article 57a)	Ammonium dichromate is mainly used as
	4.7		Mutagenic (Article 57b)	an oxidising agent. Other known uses are
			Toxic for reproduction	in the manufacture of photosensitive
			(Article 57c)	screens and as
				mordant in the manufacture of textiles.
				Minor uses seem to comprise metal
				treatment and laboratory analytical
				agent.
Potassium dichromate	7778-50-9	231-906-6	Carcinogenic (Article 57a)	Potassium dichromate is used for chrome
			Mutagenic (Article 57b)	metal manufacturing and as corrosion
			Toxic for reproduction	inhibitor for treatment and coating of
			(Article 57c)	metals. It is further used as textile
				mordant, as laboratory analytical agent,
				for cleaning of laboratory glassware, in
	W 10			the manufacture of other reagents and as
				oxidising agent in photolithography.

# ■ The Announcement of the Fourth 8 SVHCs List

The ECHA has added eight more chemical Substances of Very High Concern (SVHC) to the Candidate List on 15th December 2010.

The list of these 8 SVHCs and possible applications are shown below:

Substance Name	CAS No.	EC No.	Reason for inclusion	Examples of use(s)
Cobalt(II) sulphate	10124-43-3	233-334-2	Carcinogenic (Article 57a)	Mainly used in the production of other
			Toxic for reproduction	chemicals. Further applications may
			(Article 57c)	include manufacture of catalysts and
				driers, surface treatments (such as
				electroplating), corrosion prevention,
				production of pigments, decolourising (in
				glass, pottery), batteries, animal food
				supplements, soil fertilizers, and others.



Substance Name	CAS No.	EC No.	Reason for inclusion	Examples of use(s)
Cobalt(II) dinitrate	10141-05-6	233-402-1	Carcinogenic (Article 57a) Toxic for reproduction (Article 57c)	Mainly used in the production of other chemicals and the manufacture of catalysts. Further applications may include surface treatment and batteries.
Cobalt(II) carbonate	513-79-1	208-169-4	Carcinogenic (Article 57a)  Toxic for reproduction (Article 57c)	Mainly used in the manufacture of catalysts. Minor uses may include feed additive, production of other chemicals, production of pigments, and adhesion (in ground coat frit).
Cobalt(II) diacetate	71-48-7	200-755-8	Carcinogenic (Article 57a)  Toxic for reproduction  (Article 57c)	Mainly used in the manufacture of catalysts. Minor uses may include production of other chemicals, surface treatment, alloys, production of pigments, dyes, rubber adhesion, and feed additive.
2-Methoxyethanol	109-86-4	203-713-7	Toxic for reproduction (Article 57c)	Mainly used as solvent, intermediate and as an additive for fuel.  Might also be used in textile finishing.
2-Ethoxyethanol	110-80-5	203-804-1	Toxic for reproduction (Article 57c)	Mainly used as solvent and chemical intermediate. Might also be used in textile finishing.
Chromium trioxide	1333-82-0	215-607-8	Carcinogenic (Article 57a)  Mutagenic (Article 57b)	Used for metal finishing and as a fixing agent in waterborne wood preservatives.
Acids generated from chromium trioxide and their oligomers: Chromic acid Dichromic acid Oligomers of chromic acid and dichromic acid	7738-94-5, 13530-68-2	231-801-5 236-881-5	Carcinogenic (Article 57a)	These acids and their oligomers are generated when chromium trioxide is dissolved in water. Chromium trioxide is mainly used in the form of aqueous solutions.  Consequently, the uses of these substances are the same as indicated for

### ■ The Announcement of the Fifth 7 SVHCs List

The ECHA has added seven more chemical Substances of Very High Concern (SVHC) to the Candidate List on 20th June 2011.

The list of these 7 SVHCs and possible applications are shown below:

Substance Name	CAS No.	EC No.	Reason for inclusion	Examples of use(s)
2-ethoxyethyl acetate	111-15-9	203-839-2	Toxic for reproduction	Solvent and intermediate, formulation of
			(Article 57c)	paints, lacquers and varnishes.
strontium chromate	7789-06-2	232-142-6	Carcinogenic (Article 57a)	Inhibitor, pigments, paints, varnishes,
				oil-colors, sealants, formulations in



Substance Name	CAS No.	EC No.	Reason for inclusion	Examples of use(s)
				aeronautic/aerospace sector, coil coating sector of steel and aluminum and vehicle coating sector.
1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters	68515-42-4	271-084-6	Toxic for reproduction (Article 57c)	Adhesives and binding agents, paint, lacquers and varnishes, construction materials
Hydrazine	302- 01-2, 7803-57-8	206-114-9	Carcinogenic (Article 57a)	Hydrazine derivatives in pharmaceuticals, agrochemicals, chemical blowing agents, paints, inks and organic dyes, reagents, monomer in polymerizations, corrosion inhibitor, reducing agent in the deposition metals and purification of chemical reagents, stabilizing agent, laboratory chemical reagent; Propellant for aerospace vehicles, fuel in military gas generators.
1-methyl-2-pyrrolidone (NMP)	872-50-4	212-828-1	Toxic for reproduction (Article 57c)	Coatings (paints, printing inks), cleaning products (polymer removers, paint strippers/cleaners), agrochemicals, electronic equipment manufacture, petrochemical processing, pharmaceuticals.
1,2,3-trichloropropane	96-18-4	202-486-1	Carcinogenic (Article 57a)  Toxic for reproduction  (Article 57c)	Pesticides, chlorinated solvents, polysulfide elastomers, hexafluoroprppylene.
1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich		276-158-1	Toxic for reproduction (Article 57c)	Plasticiser in PVC, plasticiser in sealants and printing inks, sealants and coatings, printing inks, oil additive.

# ■ The Announcement of the sixth 20 SVHCs List

The ECHA has added twenty more chemical Substances of Very High Concern (SVHC) to the Candidate List on 19th December 2011.

The list of these 20 SVHCs and possible applications are shown below:

Substance Name	CAS No.	EC No.	Reason for inclusion	Examples of use(s)
Dichromium tris(chromate)	24613-89-6	246-356-2	Carcinogenic (Article 57a)	Mainly used in mixtures for metal surface treatment in the aeronautic/aerospace, steel and aluminium coating sectors.
Potassium hydroxyoctaoxodizincatedi-c hromate	11103-86-9	234-329-8	Carcinogenic (Article 57a)	Mainly used in coatings in the aeronautic/ aerospace, steel and aluminium coil coating and vehicle coating sectors.

Substance Name	CAS No.	EC No.	Reason for inclusion	Examples of use(s)
Pentazinc chromate octahydroxide	49663-84-5	256-418-0	Carcinogenic (Article 57a)	Mainly used in coatings in the vehicle coating and aeronautic / aerospace sectors.
Zirconia Aluminosilicate Refractory Ceramic Fibres <sup>1</sup>		5	Carcinogenic (Article 57a)	Refractory ceramic fibres are used for high-temperature insulation, almost exclusively in industrial applications (insulation of industrial furnaces and equipment, equipment for the automotive and aircraft/aerospace industry) and in fire protection (buildings and industrial process equipment).
Aluminosilicate Refractory Ceramic Fibres		6	Carcinogenic (Article 57a)	Refractory ceramic fibres are used for high-temperature insulation, almost exclusively in industrial applications (insulation of industrial furnaces and equipment, equipment for the automotive and aircraft/aerospace industry) and in fire protection (buildings and industrial process equipment).
Formaldehyde, oligomeric reaction products with aniline (technical MDA)	25214-70-4	500-036-1	Carcinogenic (Article 57a)	Mainly used for manufacture of other substances. Minor uses are as hardener for epoxy resins, e.g. for the production of rolls, pipes and moulds, and as well for adhesives.
Bis(2-methoxyethyl) phthalate	117-82-8	204-212-6	Toxic for reproduction (Article 57c)	No registration for this phthalate compound has been submitted to ECHA. Hence, the substance seems not to be manufactured in or imported to the EU in quantities above 1 t/y. Main uses in the past were as plasticiser in polymeric materials and paints, lacquers and varnishes, including printing inks.
2-Methoxyaniline; o-Anisidine	90-04-0	201-963-1	Carcinogenic (Article 57a)	Mainly used in the manufacture of dyes for tattooing and coloration of paper, polymers and aluminium foil.
4-(1,1,3,3-tetramethylbutyl) phenol	140-66-9	205-426-2	Endocrine disrupting properties (Article 57(f) - environment)	Mainly used in the manufacture of polymer preparations and of ethoxylates. Further used as a component in adhesives, coatings, inks and rubber articles.

Substance Name	CAS No.	EC No.	Reason for inclusion	Examples of use(s)
1,2-Dichloroethane	107-06-2	203-458-1	Carcinogenic (Article 57a)	Mainly used for manufacture of other substances. Minor uses as solvent in the chemical and pharmaceutical industry.
Bis(2-methoxyethyl) ether	111-96-6	203-924-4	Toxic for reproduction (Article 57c)	Used primarily as a reaction solvent or process chemical in a wide variety of applications. Used also as solvent for battery electrolytes, and possibly in other products such as sealants, adhesives, fuels and automotive care products.
Arsenic acid	7778-39-4	231-901-9	Carcinogenic (Article 57a)	Mainly used to remove gas bubbles from ceramic glass melt and in the production of laminated printed circuit boards
Calcium arsenate	7778-44-1	231-904-5	Carcinogenic (Article 57a)	Calcium arsenate is present in complex raw materials imported for manufacture of copper, lead and a range of precious metals. It appears mainly to be used as precipitating agent in copper smelting and to manufacture diarsenic trioxide. However, most of the substance seems to be disposed of as waste.
Trilead diarsenate	3687-31-8	222-979-5	Carcinogenic (Article 57a)  Toxic for reproduction (Article 57c)	Trilead diarsenate is present in complex raw materials imported for manufacture of copper, lead and a range of precious metals. The trilead diarsenate contained in the raw materials is in the metallurgical refinement process transformed to calcium arsenate and diarsenic trioxide. Whereas most of the calcium arsenate appears to be disposed of as waste the diarsenic trioxide is used further.
N,N-dimethylacetamide (DMAC)	127-19-5	204-826-4	Toxic for reproduction (Article 57c)	Used as solvent, mainly in the manufacture of various substances and in the production of fibres for clothing and other applications.  Also used as reagent, and in products such as industrial coatings, polyimide films, paint strippers and ink removers.

Substance Name	CAS No.	EC No.	Reason for inclusion	Examples of use(s)
2,2'-dichloro-4,4'-methylene dianiline (MOCA)	101-14-4	202-918-9	Carcinogenic (Article 57a)	Mainly used as curing agent in resins and in the production of polymer articles and also for manufacture of other substances. The substance may further be used in construction and arts.
Phenolphthalein	77-09-8	201-004-7	Carcinogenic (Article 57a)	Mainly used as laboratory agent (in pH indicator solutions), for the production of pH-indicator paper and in medicinal products.
Lead azide, Lead diazide	13424-46-9	236-542-1	Toxic for reproduction (Article 57c)	Mainly used as initiator or booster in detonators for both civilian and military uses and as initiator in pyrotechnic devices.
Lead styphnate	15245-44-0	239-290-0	Toxic for reproduction (Article 57c)	Mainly used as a primer for small calibre and rifle ammunition. Other common uses are in munition pyrotechnics, powder actuated devices and detonators for civilian use.
Lead dipicrate	6477-64-1	229-335-2	Toxic for reproduction (Article 57c)	No registration for this substance has been submitted to ECHA. Lead dipicrate is an explosive like lead diazide and lead styphnate. It may be used in low amounts in detonator mixtures together with the two other mentioned lead compounds.

- Zirconia Aluminosilicate Refractory Ceramic Fibres are fibres covered by index number 650-017-00-8 in Annex VI, part 3, table 3.1 of Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, and fulfil the three following conditions: a) oxides of aluminium, silicon and zirconium are the main components present (in the fibres) within variable concentration ranges b) fibres have a length weighted geometric mean diameter less two standard geometric errors of 6 or less micrometres (μm). c) alkaline oxide and alkali earth oxide (Na<sub>2</sub>O+K<sub>2</sub>O+CaO+MgO+BaO) content less or equal to 18% by weight
- 2. Aluminosilicate Refractory Ceramic Fibres are fibres covered by index number 650-017-00-8 in Annex VI, part 3, table 3.1 of Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, and fulfil the three following conditions: a) oxides of aluminium and silicon are the main components present (in the fibres) within variable concentration ranges b) fibres have a length weighted geometric mean diameter less two standard geometric errors of 6 or less micrometres (μm) c) alkaline oxide and alkali earth oxide (Na<sub>2</sub>O+K<sub>2</sub>O+CaO+MgO+BaO) content less or equal to 18% by weight

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# ■ The Announcement of the seventh 13 SVHCs List

The ECHA has added thirteen more chemical Substances of Very High Concern (SVHC) to the Candidate List on 18th June 2012.

The list of these 13 SVHCs and possible applications are shown below:

Substance Name	CAS No.	EC No.	Reason for inclusion	Examples of use(s)
1,2-bis(2-methoxyethoxy) ethane (TEGDME; triglyme)	112-49-2	203-977-3	Toxic for reproduction (Article 57c)	Mainly used as a solvent or as a processing aid in the manufacture and formulation of industrial chemicals.  Minor use in brake fluids and repair of
1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	110-71-4	203-794-9	Toxic for reproduction (Article 57c)	motor vehicles.  Mainly used as a solvent or as a processing aid in the manufacture and formulation of industrial chemicals, including use as an electrolyte solvent in lithium batteries.
Diboron trioxide	1303-86-2	215-125-8	Toxic for reproduction (Article 57c)	Used in a multitude of applications, e.g., in glass and glass fibres, frits, ceramics, flame retardants, catalysts, industrial fluids, metallurgy, adhesives, inks/paints, film developers solutions, detergents and cleaners, biocides and insecticides.
Formamide	75-12-7	200-842-0	Toxic for reproduction (Article 57c)	Mainly used as an intermediate. Minor uses as solvent, as reagent chemical (in the pharmaceutical industry) and as laboratory chemical. The substance seems further to be used in the agrochemical industry and as a plasticiser.
Lead (II) bis (methanesulfonate)	17570-76- 2	401-750-5	Toxic for reproduction (Article 57c)	Mainly used in plating (both electrolytic and electroless) processes for electronic components (such as printed circuit boards).
TGIC(1,3,5-tris (oxiranylmethyl) -1,3,5-triazine-2,4,6 (1H,3H,5H) -trione)	2451-62-9	219-514-3	Mutagenic (Article 57b)	Mainly used as a hardener in resins and coatings; also used in inks for the printed circuit board industry, electrical insulation material, resin moulding systems, laminated sheeting, silk screen printing coatings, tools, adhesives, lining materials and stabilisers for plastics.
β-TGIC(1,3,5-tris[(2S and2R)-2,3-epoxypropyl]-1	59653-74- 6	423-400-0	Mutagenic (Article 57b)	Mainly used as a hardener in resins and coatings; also used in inks for the printed



		4		
Substance Name	CAS No.	EC No.	Reason for inclusion	Examples of use(s)
,3,5-triazine-2,4,6-(1H,3H, 5H)-trione)				circuit board industry, electrical insulation material, resin moulding systems, laminated sheeting, silk screen printing coatings, tools, adhesives, lining
				materials and stabilisers for plastics.
4,4'-bis(dimethylamino) benzophenone(Michler's ketone)	90-94-8	202-027-5	Carcinogenic (Article 57a)	Intermediate in the manufacture of triphenylmethane dyes and other substances. Further potential uses include as additive (photosensitiser) in dyes and pigments, in dry film
				products, as a process chemical in the production of electronic circuit boards, in research and development applications.
N,N,N',N'-tetramethyl-4,4'- methylenedianiline (Michler's base)	101-61-1	202-959-2	Carcinogenic (Article 57a)	Intermediate in the manufacture of dyes and other substances. Used also as chemical reagent in research and development.
[4-[4,4'-bis(dimethylamino ) benzhydrylidene] cyclohexa-2, 5-dien-1-ylidene] dimethylammonium chloride (C.I. Basic Violet 3)1	548-62-9	208-953-6	Carcinogenic (Article 57a)	Used mainly for paper colouring and inks supplied in printer cartridges and ball pens. Further uses include staining of dried plants, marker for increasing the visibility of liquids, staining in microbial and clinical laboratories.
[4-[[4-anilino-1-naphthyl]] 4-(dimethylamino)phenyl] methylene]cyclohexa-2,5- dien-1-ylidene] dimethylammonium chloride (C.I. Basic Blue 26)1	2580-56-5	219-943-6	Carcinogenic (Article 57a)	Used in the production of inks, cleaners, and coatings, as well as for dyeing of paper, packaging, textiles, plastic products, and other types of articles. It is also used in diagnostic and analytical applications.
α,α-Bis[4-(dimethylamino) phenyl]-4 (phenylamino) naphthalene -1-methanol (C.I. Solvent Blue 4) <sup>1</sup>	6786-83-0	229-851-8	Carcinogenic (Article 57a)	Mainly used in the production of printing and writing inks, for dyeing of paper and in mixtures such as windscreen washing agents.
4,4'-bis(dimethylamino)-4'' -(methylamino)trityl alcohol <sup>1</sup>	561-41-1	209-218-2	Carcinogenic (Article 57a)	Used in the production of writing inks and potentially in the production of other inks, as well as for dyeing of a variety of materials.

# ■ The Announcement of the eighth 54 SVHCs List

The ECHA has added fifty-four more chemical Substances of Very High Concern (SVHC) to the Candidate List on 19th December 2012.

### The list of these 54 SVHCs and properties are shown below:

Substance Name	EC No.	CAS No.	SVHC Property
Bis(pentabromophenyl) ether	214-604-9	1163-19-5	PBT (Article 57d)
(decabromodiphenyl ether; DecaBDE)			vPvB (Article 57e)
Pentacosafluorotridecanoic acid	276-745-2	72629-94-8	vPvB (Article 57e)
Tricosafluorododecanoic acid	206-203-2	307-55-1	Toxic for reproduction (Article 57c)
Henicosafluoroundecanoic acid	218-165-4	2058-94-8	vPvB (Article 57e)
Heptacosafluorotetradecanoic acid	206-803-4	376-06-7	vPvB (Article 57e)
Diazene-1,2-dicarboxamide	204-650-8	123-77-3	Respiratory sensitising properties (Article 57(f) -
(C,C'-azodi(formamide)) (ADCA)			human health)
Cyclohexane-1,2-dicarboxylic anhydride [1]	201-604-9,	85-42-7,	Respiratory sensitising properties (Article 57(f) -
cis-cyclohexane-1,2-dicarboxylic anhydride [2]	236-086-3,	13149-00-3,	human health)
trans-cyclohexane-1,2-dicarboxylic anhydride [3]	238-009-9	14166-21-3	
[The individual cis- [2] and trans- [3] isomer			
substances and all possible combinations of the			
cis- and trans-isomers [1] are covered			
by this entry].			
Hexahydromethylphthalic anhydride	247-094-1,	25550-51-0,	Respiratory sensitising properties (Article 57(f) -
including cis- and trans- stereo isomeric forms and	260-566-1,	57110-29-9,	human health)
all possible combinations of the isomers	256-356-4,	48122-14-1,	
Hexahydromethylphthalic anhydride	243-072-0,	19438-60-9,	
Hexahydro-3-methylphthalic anhydride			
Hexahydro-1-methylphthalic anhydride			
Hexahydro-4-methylphthalic anhydride			
4-Nonylphenol, branched and linear	-	-	Endocrine disrupting properties (Article 57(f) -
[substances with a linear and/or branched alkyl			environment)
chain with a carbon number of 9 covalently bound			
in position 4 to phenol, covering also UVCB- and			
well-defined substances which include any of the			
individual isomers or a combination thereof]			
4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated	-	-	Endocrine disrupting properties (Article 57(f) -
[covering well-defined substances and UVCB			environment)
substances, polymers and homologues]			
Methoxyacetic acid	210-894-6	625-45-6	Toxic for reproduction (Article 57c)
N,N-dimethylformamide	200-679-5	68-12-2	Toxic for reproduction (Article 57c)
Dibutyltin dichloride (DBTC)	211-670-0	683-18-1	Toxic for reproduction (Article 57c)
Lead monoxide (Lead oxide)	215-267-0	1317-36-8	Toxic for reproduction (Article 57c)
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Substance Name	EC No.	CAS No.	SVHC Property
Orange lead (Lead tetroxide)	215-235-6	1314-41-6	Toxic for reproduction (Article 57c)
Lead bis(tetrafluoroborate)	237-486-0	13814-96-5	Toxic for reproduction (Article 57c)
Trilead bis(carbonate)dihydroxide	215-290-6	1319-46-6	Toxic for reproduction (Article 57c)
Lead titanium trioxide	235-038-9	12060-00-3	Toxic for reproduction (Article 57c)
Lead titanium zirconium oxide	235-727-4	12626-81-2	Toxic for reproduction (Article 57c)
	234-363-3	11120-22-2	Toxic for reproduction (Article 57c)
Silicic acid, lead salt			
Silicic acid (H2Si2O5), barium salt (1:1), lead-doped	272-271-5	68784-75-8	Toxic for reproduction (Article 57c)
[with lead (Pb) content above the applicable			
generic concentration limit for 'toxicity for			
reproduction' Repr. 1A (CLP) or category 1 (DSD);			
the substance is a member of the group entry of			
lead compounds, with index number 082-001-00-6			
in Regulation (EC) No 1272/2008]			
1-bromopropane (n-propyl bromide)	203-445-0	106-94-5	Toxic for reproduction (Article 57c)
Methyloxirane (Propylene oxide)	200-879-2	75-56-9	Carcinogenic (Article 57a)
			Mutagenic (Article 57b)
1,2-Benzenedicarboxylic acid, dipentylester,	284-032-2	84777-06-0	Toxic for reproduction (Article 57c)
branched and linear			
Diisopentylphthalate (DIPP)	210-088-4	605-50-5	Toxic for reproduction (Article 57c)
N-pentyl-isopentylphthalate	-	776297-69-9	Toxic for reproduction (Article 57c)
1,2-diethoxyethane	211-076-1	629-14-1	Toxic for reproduction (Article 57c)
Acetic acid, lead salt, basic	257-175-3	51404-69-4	Toxic for reproduction (Article 57c)
Lead oxide sulfate	234-853-7	12036-76-9	Toxic for reproduction (Article 57c)
[Phthalato(2-)]dioxotrilead	273-688-5	69011-06-9	Toxic for reproduction (Article 57c)
Dioxobis(stearato)trilead	235-702-8	12578-12-0	Toxic for reproduction (Article 57c)
Fatty acids, C16-18, lead salts	292-966-7	91031-62-8	Toxic for reproduction (Article 57c)
Lead cynamidate	244-073-9	20837-86-9	Toxic for reproduction (Article 57c)
Lead dinitrate	233-245-9	10099-74-8	Toxic for reproduction (Article 57c)
Pentalead tetraoxide sulphate	235-067-7	12065-90-6	Toxic for reproduction (Article 57c)
Pyrochlore, antimony lead yellow	232-382-1	8012-00-8	Toxic for reproduction (Article 57c)
Sulfurous acid, lead salt, dibasic	263-467-1	62229-08-7	Toxic for reproduction (Article 57c)
Tetraethyllead	201-075-4	78-00-2	Toxic for reproduction (Article 57c)
Tetralead trioxide sulphate	235-380-9	12202-17-4	Toxic for reproduction (Article 57c)
Trilead dioxide phosphonate	235-252-2	12141-20-7	Toxic for reproduction (Article 57c)
Thread dioxide phospholidte	233 232 2	12171 20 /	Toxic for reproduction (Article 376)



Substance Name	EC No.	CAS No.	SVHC Property
Furan	203-727-3	110-00-9	Carcinogenic (Article 57a)
Diethyl sulphate	200-589-6	64-67-5	Carcinogenic (Article 57a)
			Mutagenic (Article 57b)
Dimethyl sulphate	201-058-1	77-78-1	Carcinogenic (Article 57a)
3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	421-150-7	143860-04-2	Toxic for reproduction (Article 57c)
Dinoseb (6-sec-butyl-2,4-dinitrophenol)	201-861-7	88-85-7	Toxic for reproduction (Article 57c)
4,4'-methylenedi-o-toluidine	212-658-8	838-88-0	Carcinogenic (Article 57a)
4,4'-oxydianiline and its salts	202-977-0	101-80-4	Carcinogenic (Article 57a)
			Mutagenic (Article 57b)
4-aminoazobenzene	200-453-6	60-09-3	Carcinogenic (Article 57a)
4-methyl-m-phenylenediamine	202-453-1	95-80-7	Carcinogenic (Article 57a)
(toluene-2,4-diamine)			
6-methoxy-m-toluidine (p-cresidine)	204-419-1	120-71-8	Carcinogenic (Article 57a)
Biphenyl-4-ylamine	202-177-1	92-67-1	Carcinogenic (Article 57a)
o-aminoazotoluene [(4-o-tolylazo-o-toluidine])	202-591-2	97-56-3	Carcinogenic (Article 57a)
o-toluidine	202-429-0	95-53-4	Carcinogenic (Article 57a)
N-methylacetamide	201-182-6	79-16-3	Toxic for reproduction (Article 57c)

 The last four SVHCs identification is based on the presence of the carcinogenic constituents Michler's ketone or Michler's base above the concentration limit for classifying the substances as carcinogenic (≥ 0.1 % weight/weight).

### ■ The Announcement of the ninth 6 SVHCs List

The ECHA has added six more chemical Substances of Very High Concern (SVHC) to the Candidate List on 20th June 2013.

The list of these 6 SVHCs and properties are shown below:

Substance Name	EC No.	CAS No.	SVHC Property
Cadmium	231-152-8	7440-43-9	Carcinogenic (Article 57a); Equivalent level of concern having probable serious effects to human health (Article 57 f)
Cadmium oxide	215-146-2	1306-19-0	Carcinogenic (Article 57a); Equivalent level of concern having probable serious effects to human health (Article 57 f)
Ammonium pentadecafluorooctanoate (APFO)	223-320-4	3825-26-1	Toxic for reproduction (Article 57 c); PBT (Article 57 d)
Pentadecafluorooctanoic acid (PFOA)	206-397-9	335-67-1	Toxic for reproduction (Article 57 c); PBT (Article 57 d)
Dipentyl phthalate (DPP)	205-017-9	131-18-0	Toxic for reproduction (Article 57 c)



Substance Name	EC No.	CAS No.	SVHC Property
4-Nonylphenol, branched and linear,	-	-	Equivalent level of concern having probable
ethoxylated[substances with a linear and/or			serious effects to the environment (Article 57
branched alkyl chain with a carbon number			f)
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]			

# ■ The Announcement of the tenth 7 SVHCs List

The ECHA has added seven more chemical Substances of Very High Concern (SVHC) to the Candidate List on 16th December 2013.

#### The list of these 7 SVHCs and properties are shown below:

Substance Name	EC No.	CAS No.	SVHC Property
Disodium	217-710-3	1937-37-7	
4-amino-3-[[4'-[(2,4-diaminophenyl)azo]			
[1,1'-biphenyl]-4-yl]azo]			Carcinogenic (Article 57a)
-5-hydroxy-6-(phenylazo)			caremogerile (virticle 574)
naphthalene-2,7-disulphonate(C.I. Direct			
Black 38)			
Trixylyl phosphate	246-677-8	25155-23-1	Toxic for reproduction (Article 57 c)
Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis	209-358-4	573-58-0	
(azo)]bis(4-aminonaphthalene-1-sulphonate)			Carcinogenic (Article 57a)
(C.I. Direct Red 28)			
Dihexyl phthalate	201-559-5	84-75-3	Toxic for reproduction (Article 57 c)
Imidazolidine-2-thione; 2-imidazoline-2-thiol	202-506-9	96-45-7	Toxic for reproduction (Article 57 c)
	215-147-8	1306-23-6	Carcinogenic (Article 57a); Equivalent level of
Cadmium sulphide			concern having probable serious effects to
			human health (Article 57 f)
Lead di(acetate)	206-104-4	301-04-2	Toxic for reproduction (Article 57 c)

### ■ The Announcement of the eleventh 4 SVHCs List

The ECHA has added four more chemical Substances of Very High Concern (SVHC) to the Candidate List on 16th June 2014.

# The list of these 4 SVHCs and properties are shown below:

Substance Name	EC No.	CAS No.	SVHC Property	
Cadmium chloride	233-296-7	10108-64-2	Carcinogenic (Article 57a);	
			Mutagenic (Article 57b);	

			Toxic for reproduction (Article 57c); Equivalent level of concern having probable serious effects to human health (Article 57 f)
1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	271-093-5	68515-50-4	Toxic for reproduction (Article 57 c)
Sodium peroxometaborate	231-556-4	7632-04-4	Toxic for reproduction (Article 57 c)
Sodium perborate; perboric acid, sodium salt	239-172-9; 234-390-0	-	Toxic for reproduction (Article 57 c)

# ■ The Announcement of the 12th 6 SVHCs List

The ECHA has added six more chemical Substances of Very High Concern (SVHC) to the Candidate List on 17th December 2014.

The list of these 6 SVHCs and properties are shown below:

Substance Name	EC No.	CAS No.	SVHC Property
Cadmium fluoride	232-222-0	7790-79-6	Carcinogenic (Article 57 a);  Mutagenic (Article 57 b);  Toxic for reproduction (Article 57 c);  Equivalent level of concern having probable serious effects to human health (Article 57 f)
Cadmium sulphate	233-331-6	10124-36-4; 31119-53-6	Carcinogenic (Article 57 a); Mutagenic (Article 57 b); Toxic for reproduction (Article 57 c); Equivalent level of concern having probable serious effects to human health (Article 57 f)
2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	223-346-6	3846-71-7	PBT (Article 57 d); vPvB (Article 57 e)
2-(2H-benzotriazol-2-yl)-4,6- ditertpentylphenol (UV-328)	247-384-8	25973-55-1	PBT (Article 57 d); vPvB (Article 57 e)
2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8- oxa-3,5-dithia-4-stannatetradecanoate (DOTE)	239-622-4	15571-58-1	Toxic for reproduction (Article 57 c)
Reaction mass of 2-ethylhexyl 10-ethyl-4,4-dioctyl-7- oxo-8-oxa-3, 5-dithia-4-stannatetradecanoate and 2-ethylhexyl 10-ethyl-4-[[2-[(2-ethylhexyl) oxy]-2-oxoethyl]thio] -4-octyl-7-oxo-8-oxa-3, 5-dithia-4-stannatetradecanoate (reaction mass of DOTE and MOTE)	5	-	Toxic for reproduction (Article 57 c)



### ■ The Announcement of the 13th 2 SVHCs List

The ECHA has added two more chemical Substances of Very High Concern (SVHC) to the Candidate List on 15th June 2015.

### The list of these 2 SVHCs and properties are shown below:

Substance Name	EC No.	CAS No.	SVHC Property
1,2-benzenedicarboxylic acid, di-C6-10-alkyl	271-094-0;	68515-51-5;	Toxic for reproduction (Article 57 c)
esters; 1,2-benzenedicarboxylic acid, mixed decyl	272-013-1	68648-93-1	
and hexyl and octyl diesters with ≥ 0.3% of			
dihexyl phthalate (EC No. 201-559-5)			
5-sec-butyl-2-(2,4-dimethylcyclohex-3-en-1-yl)-5-	-	-	vPvB (Article 57e)
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]			

### ■ The Announcement of the 14th 5 SVHCs List

The ECHA has added five more chemical Substances of Very High Concern (SVHC) to the Candidate List on 17th December 2015.

### The list of these 5 SVHCs and properties are shown below:

Substance Name	EC No.	CAS No.	SVHC Property
Nitrobenzene	202-716-0	98-95-3	Toxic for reproduction (Article 57 c)
2,4-di-tert-butyl-6-(5-chlorobenzotriazol- 2-yl)phenol (UV-327)	223-383-8	3864-99-1	vPvB (Article 57 e)
2-(2H-benzotriazol-2-yl)-4-(tert-butyl)- 6-(sec-butyl) phenol (UV-350)	253-037-1	36437-37-3	vPvB (Article 57 e)
1,3-propanesultone	214-317-9	1120-71-4	Carcinogenic (Article 57 a)
Perfluorononan-1-oic-acid and its sodium and ammonium salts	206-801-3	375-95-1 21049-39-8 4149-60-4	Toxic for reproduction (Article 57 c) PBT (Article 57 d)

### ■ The Announcement of the 15th 1 SVHC List

The ECHA has added one more chemical Substances of Very High Concern (SVHC) to the Candidate List on 20th June 2016.

### The list of the one SVHC and property are shown below:

Substance Name	EC No.	CAS No.	SVHC Property
Benzo[def]chrysene	200-028-5	50-32-8	Carcinogenic (Article 57a);
(Benzo[a]pyrene)			Mutagenic (Article 57b);
			Toxic for reproduction (Article 57c);
			PBT (Article 57d); vPvB (Article 57e).

### ■ The Announcement of the 16th 4 SVHCs List

The ECHA has added four more chemical Substances of Very High Concern (SVHC) to the Candidate List on 12th January 2017.

### The list of these 4 SVHCs and properties are shown below:

Substance Name	EC No.	CAS No.	SVHC Property
4,4'-isopropylidenediphenol (bisphenol A;	201-245-8	80-05-7	Toxic for reproduction (Article 57c)
BPA)			Endocrine disrupting properties (Article 57(f)
			- environment)
			Endocrine disrupting properties (Article 57(f)
			- human health)
Nonadecafluorodecanoic acid (PFDA) and its	206-400-3	335-76-2	Toxic for reproduction (Article 57c)
sodium and ammonium salts	-	3830-45-3	PBT (Article 57d)
	221-470-5	3108-42-7	
p-(1,1-dimethylpropyl)phenol	201-280-9	80-46-6	Equivalent level of concern having probable
			serious effects to environment (Article 57f)
4-heptylphenol, branched and linear	-	-	Equivalent level of concern having probable
[substances with a linear and/or branched			serious effects to environment (Article 57f)
alkyl chain with a carbon number of 7			
covalently bound predominantly in position			
4 to phenol, covering also UVCB- and			
well-defined substances which include any of			
the individual isomers or a combination			
thereof]			

### ■ The Announcement of the 17th 1 SVHC List

The ECHA has added one more chemical Substances of Very High Concern (SVHC) to the Candidate List on 7th July 2017.

# The list of the one SVHC and property are shown below:

Substance Name	EC No.	CAS No.	SVHC Property
Perfluorohexane-1-sulphonic acid and its		-	vPvB (Article 57e)
salts (PFHxS)			

### ■ The Announcement of the 18th 7 SVHCs List

The ECHA has added seven more chemical Substances of Very High Concern (SVHC) to the Candidate List on 15th January 2018.

### The list of these 7 SVHCs and properties are shown below:

Substance Name	EC No.	CAS No.	SVHC Property
Chrysene	205-923-4	218-01-9	Carcinogenic (Article 57a) PBT (Article 57d)
			vPvB (Article 57e)



Substance Name	EC No.	CAS No.	SVHC Property
			Carcinogenic (Article 57a)
Benz[a]anthracene	200-280-6	56-55-3	PBT (Article 57d)
			vPvB (Article 57e)
Cadmium nitrate	233-710-6	10325-94-7	Carcinogenic (Article 57a)
			Mutagenic (Article 57b)
			Specific target organ toxicity after repeated
			exposure (Article 57(f) - human health)
Cadmium hydroxide	244-168-5	21041-95-2	Carcinogenic (Article 57a)
			Mutagenic (Article 57b)
			Specific target organ toxicity after repeated
			exposure (Article 57(f) - human health)
Cadmium carbonate	208-168-9	513-78-0	Carcinogenic (Article 57a)
			Mutagenic (Article 57b)
			Specific target organ toxicity after repeated
			exposure (Article 57(f) - human health)
1,6,7,8,9,14,15,16,17,17,18,18-	-	-	vPvB (Article 57e)
Dodecachloropentacyclo[12.2.1.16,9.02,13.05,10]			
octadeca-7,15-diene ("Dechlorane Plus"TM)			
[covering any of its individual anti- and			
syn-isomers or any combination thereof]			
Reaction products of 1,3,4-thiadiazolidine-	-	-	Endocrine disrupting properties (Article 57(f)
2,5-dithione, formaldehyde and 4-heptylphenol,			- environment)
branched and linear (RP-HP) [with ≥0.1% w/w			
4-heptylphenol, branched and linear			

# ■ The Announcement of the 19th 10 SVHCs List

The ECHA has added ten more chemical Substances of Very High Concern (SVHC) to the Candidate List on 27th June 2018.

The list of these 10 SVHCs and possible applications are shown below:

Substance Name	CAS No.	EC No.	Reason for inclusion	Examples of use(s)
Octamethylcyclotetrasiloxane (D4)	209-136-7	556-67-2	PBT (Article 57d) vPvB (Article 57e)	Used in washing and cleaning products, polishes and waxes
				and cosmetics and personal care products.
Decamethylcyclopentasiloxane (D5)	208-764-9	541-02-6	PBT (Article 57d) vPvB (Article 57e)	Used in washing and cleaning products, polishes and waxes, cosmetics and personal care products, textile treatment products and dyes.
Dodecamethylcyclohexasiloxane	208-762-8	540-97-6	PBT (Article 57d)	Used in washing and cleaning



Substance Name	CAS No.	EC No.	Reason for inclusion	Examples of use(s)
(D6)			vPvB (Article 57e)	products, polishes and waxes, cosmetics and personal care products.
Lead	231-100-4	7439-92-1	Toxic for reproduction (Article 57c)	Used in metals, welding and soldering products, metal surface treatment products, and polymers.
Disodium octaborate	234-541-0	12008-41-2	Toxic for reproduction (Article 57c)	Used in anti-freeze products, heat transfer fluids, lubricants and greases, and washing and cleaning products.
Benzo[ghi]perylene	205-883-8	191-24-2	PBT (Article 57d) vPvB (Article 57e)	Not registered under REACH.  Normally not produced intentionally but rather occurs as a constituent or impurity in other substances.
Terphenyl hydrogenated	262-967-7	61788-32-7	vPvB (Article 57e)	Used as a plastic additive, solvent, in coatings/inks, in adhesives and sealants, and heat transfer fluids.
Ethylenediamine (EDA)	203-468-6	107-15-3	Respiratory sensitising properties (Article 57(f) - human health)	Used in adhesives and sealants, coating products, fillers, putties, plasters, modelling clay, pH regulators and water treatment products.
Benzene-1,2,4-tricarboxylic acid 1,2 anhydride (trimellitic anhydride) (TMA)	209-008-0	552-30-7	Respiratory sensitising properties (Article 57(f) - human health)	Used in the manufacture of esters and polymers.
Dicyclohexyl phthalate (DCHP)	201-545-9	84-61-7	Toxic for reproduction (Article 57c) Endocrine disrupting properties (Article 57(f) - human health)	Used in plastisol, PVC, rubber and plastic articles. A further use is also as a phlegmatiser and dispersing agent for formulations of organic peroxides.

# ■ The Announcement of the 20th 6 SVHCs List

The ECHA has added six more chemical Substances of Very High Concern (SVHC) to the Candidate List on 15th January 2019.

The list of these six SVHCs and possible applications are shown below:

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Substance Name	CAS No.	EC No.	Reason for inclusion	Examples of use(s)
1,7,7-trimethyl-3-(phenylmethylen	239-139-9	15087-24-8	Endocrine disrupting properties	Not yet registered under
e)bicyclo[2.2.1]heptan-2-one			(Article 57(f) - environment)	REACH.
2,2-bis(4'-hydroxyphenyl)-4-methyl	401-720-1	6807-17-6	Toxic for reproduction (Article 5	No active registrations
pentane			7c)	under REACH.
Benzo[k]fluoranthene	205-916-6	207-08-9	Carcinogenic (Article 57a)	Not yet registered under
			PBT (Article 57d)	REACH.
			vPvB (Article 57e)	
Fluoranthene	205-912-4	206-44-0; 9	PBT (Article 57d)	Not yet registered under
		3951-69-0	vPvB (Article 57e)	REACH.
Phenanthrene	201-581-5	85-01-8	vPvB (Article 57e)	Not yet registered under
				REACH.
Pyrene	204-927-3	129-00-0; 1	PBT (Article 57d)	Used as a transported
		718-52-1	vPvB (Article 57e)	intermediate for the
				manufacture of fine
				chemicals.

# ■ The Announcement of the 21st 4 SVHCs List

The ECHA has added four more chemical Substances of Very High Concern (SVHC) to the Candidate List on 16th July 2019.

The list of these four SVHCs and possible applications are shown below:

Substance Name	CAS No.	EC No.	Reason for inclusion	Examples of use(s)
2-methoxyethyl acetate	203-772-9	110-49-6	Toxic for reproduction (Article 57	Not registered under
			(c))	REACH.
Tris(4-nonylphenyl, branched and	-	-	Endocrine disrupting properties	Primarily used as an
linear ) phosphite (TNPP)			(Article 57(f) - environment)	antioxidant to stabilise
Updated in Jan. 21 2025				polymers.
2,3,3,3-tetrafluoro-2-	-	-	Equivalent level of concern having	Processing aid in the
(heptafluoropropoxy) propionic			probable serious effects to the	production of fluorinated
acid, its salts and its acyl halides			environment (Article 57(f) -	polymers.
(covering any of their individual			environment)	
isomers and combinations thereof)			Equivalent level of concern having	
			probable serious effects to human	
			health (Article 57(f) - human	
			health)	
4-tert-butylphenol	202-679-0	98-54-4	Endocrine disrupting properties	Used in coating products,
			(Article 57(f) - environment)	polymers, adhesives, sealants
				and for the synthesis of other
				substances.

### ■ The Announcement of the 22nd 4 SVHCs List

The ECHA has added four more chemical Substances of Very High Concern (SVHC) to the Candidate List on 16th January 2020.

The list of these four SVHCs and possible applications are shown below:

Substance Name	CAS No.	EC No.	Reason for inclusion	Examples of use(s)
Perfluorobutane sulfonic acid	-	-	Equivalent level of concern having	Used as a catalyst/
(PFBS) and its salts			probable serious effects to human	additive/reactant in polymer
			health (Article 57(f)- human health)	manufacture and in chemical
			Equivalent level of concern having	synthesis. It is also used as a
	. "		probable serious effects to the	flame retardant in
			environment (Article 57(f) -	polycarbonate (for electronic
			environment)	equipment).
Diisohexyl phthalate	276-090-2	71850-09-4	Toxic for reproduction (Article 57c)	Not registered under REACH.
2-methyl-1-(4-methylthiophenyl)-2	400-600-6	71868-10-5	Toxic for reproduction (Article 57c)	The substance is used in
-morpholinopropan-1-one				polymer production
2-benzyl-2-dimethylamino-4'-	404-360-3	119313-12-1	Toxic for reproduction (Article 57c)	The substance is used in
morpholinobutyrophenone				polymer production

### ■ The Announcement of the 23rd 4 SVHCs List

The ECHA has added four more chemical Substances of Very High Concern (SVHC) to the Candidate List on 25th June 2020.

The list of these four SVHCs and possible applications are shown below:

Substance Name	CAS No.	EC No.	Reason for inclusion	Examples of use(s)
1-vinylimidazole	214-012-0	1072-63-5	Toxic for reproduction	In formulations and as a
			(Article 57 (c))	monomer in the production of
				polymers
2-methylimidazole	211-765-7	693-98-1	Toxic for reproduction	As a catalyst in the production
			(Article 57 (c))	of coating products
Dibutylbis(pentane-2,4-dionato-	245-152-0	22673-19-4	Toxic for reproduction	As a catalyst and as an additive
O,O')tin			(Article 57 (c))	in the production of plastics
Butyl 4-hydroxybenzoate	202-318-7	94-26-8	Endocrine disrupting	Cosmetics, personal care
(Butylparaben)			properties-human health (Article	products and pharmaceuticals
			57(f)- human health)	

### ■ The Announcement of the 24th 2 SVHCs List

The ECHA has added two more chemical Substances of Very High Concern (SVHC) to the Candidate List on 19th January 2021.

The list of these two SVHCs and possible applications are shown below:



Substance Name	CAS No.	EC No.	Reason for inclusion	Examples of use(s)
Bis(2-(2-methoxyethoxy)ethyl)ether	205-594-7	143-24-8	Toxic for reproduction	Solvent/extraction agent.
			(Article 57 (c))	
Dioctyltin dilaurate, stannane,	293-901-5	91648-39-4	Toxic for reproduction	Not registered under REACH as
dioctyl-, bis(coco acyloxy) derivs.,	-	-	(Article 57 (c))	a group of substances.
and any other stannane, dioctyl-,	222-883-3	3648-18-8		However, one of the three
bis(fatty acyloxy) derivs.				group members (Dioctyltin
wherein C12 is the predominant				dilaurate) is registered.
carbon number of the fatty				The mono-constituent form of
acyloxy moiety				the substance (dioctyltin
				dilaurate) is used as an additive
				in the production of plastics
				and rubber tyres.

### ■ The Announcement of the 25th 8 SVHCs List

The ECHA has added eight more chemical Substances of Very High Concern (SVHC) to the Candidate List on 8th July 2021.

The list of these eight SVHCs and possible applications are shown below:

Substance Name CAS No. EC No.					
CAS No.	EC No.	Reason for inclusion	Examples of use(s)		
9	75166-31-3	Toxic for reproduction	Cleaning agents, cosmetics, in		
-	80-54-6	(Article 57 c)	scented articles, polishes and		
201-289-8	75166-30-2		wax blends.		
-	25747-83-5	Toxic for reproduction	Not registered under REACH.		
-	22454-04-2	(Article 57 (c))	May be used as solvent and		
238-253-6	14312-40-4		corrosion inhibitor.		
215-604-1	1333-73-9				
237-560-2	13840-56-7				
-	14890-53-0				
221-967-7,	3296-90-0,	Carcinogenic (Article 57 a)	BMP: manufacture of polymer		
			resins and in one component		
253-057-0,	36483-57-5,		foam (OCPF) application.		
			TBNPA: polymer production		
			manufacture of plastics		
202-480-9	1522-92-5,		products, including		
	96-13-9		compounding and conversion		
			and as an intermediate.		
			DBPA: registered as an		
			intermediate.		
203-856-5	111-30-8	Respiratory sensitising	Biocides, leather tanning,		
		properties	x-ray film processing,		
		(Article 57f - human health)	cosmetics.		
	- 238-253-6 215-604-1 237-560-2 - 221-967-7, 253-057-0,	- 75166-31-3 - 80-54-6 201-289-8 75166-30-2 - 25747-83-5 - 22454-04-2 238-253-6 14312-40-4 215-604-1 1333-73-9 237-560-2 13840-56-7 - 14890-53-0 221-967-7, 3296-90-0, 253-057-0, 36483-57-5, 202-480-9 1522-92-5, 96-13-9	- 75166-31-3 Toxic for reproduction - 80-54-6 (Article 57 c)  201-289-8 75166-30-2 - 25747-83-5 Toxic for reproduction - 22454-04-2 (Article 57 (c))  238-253-6 14312-40-4 215-604-1 1333-73-9 237-560-2 13840-56-7 - 14890-53-0  221-967-7, 3296-90-0, Carcinogenic (Article 57 a)  253-057-0, 36483-57-5,  202-480-9 1522-92-5, 96-13-9  203-856-5 111-30-8 Respiratory sensitising properties		



Substance Name	CAS No.	EC No.	Reason for inclusion	Examples of use(s)
Medium-chain chlorinated paraffins	-	1372804-76-6	PBT (Article 57d)	Flame retardants, plasticising
(MCCP)	287-477-0	85535-85-9	vPvB (Article 57e)	additives in plastics, sealants,
(UVCB substances consisting of more	950-299-5	-		rubber and textiles.
than or equal to 80% linear	-	198840-65-2		
chloroalkanes with carbon chain				
lengths within the range from C14 to				
C17)				
Phenol, alkylation products (mainly in	-	210555-94-5	Toxic for reproduction (Article	Preparation of lubricant
para position) with C12-rich branched	-	27459-10-5	57c)	additive materials and of fuel
alkyl chains from oligomerisation,	-	27147-75-7	Endocrine disrupting properties	system cleaners.
covering any individual isomers and/	310-154-3	121158-58-5	(Article 57f - human health and	
or combinations thereof (PDDP)	-	74499-35-7	environment)	
	-	57427-55-1		
1,4-dioxane	204-661-8	123-91-1	Carcinogenic (Article 57a)	Solvent
			Equivalent level of concern	
			having probable serious effects	
			to the environment (Article 57f	
		<b></b>	-environment)	
			Equivalent level of concern	
			having probable serious effects	
			to human health (Article 57f	
			-human health)	
4,4'-(1-methylpropylidene)bisphenol	201-025-1	77-40-7	Endocrine disrupting properties	Not registered under REACH.
			(Article 57f - human health and	May be used in manufacture
			environment)	of phenolic and polycarbonate
				resin.

# ■ The Announcement of the 26th 4 SVHCs List

The ECHA has added four more chemical Substances of Very High Concern (SVHC) to the Candidate List on 17th January 2022.

The list of these four SVHCs and possible applications are shown below:

Substance Name	CAS No.	EC No.	Reason for inclusion	Examples of use(s)
(±)-1,7,7-trimethyl-3-[(4-methylphenyl)		-	Endocrine disrupting properties	Cosmetics
methylene] bicyclo[2.2.1]heptan-2-one			(Article 57(f) - human health)	
covering any of the individual isomers				
and/or combinations thereof (4-MBC)				
6,6'-di-tert-butyl-2,2'-methylenedi-	119-47-1	204-327-1	Toxic for reproduction (Article	Rubbers, lubricants,
p-cresol (DBMC)			57 c)	adhesives, inks, fuels
S-(tricyclo[5.2.1.0'2,6]deca-3-en-8(or	255881-94-8	401-850-9	PBT (Article 57 d)	Lubricants, greases
9)-yl) O-(isopropyl or isobutyl or				
2-ethylhexyl) O-(isopropyl or isobutyl				





Substance Name	CAS No.	EC No.	Reason for inclusion	Examples of use(s)
or 2-ethylhexyl) phosphorodithioate				
tris(2-methoxyethoxy)vinylsilane	1067-53-4	213-934-0	Toxic for reproduction (Article 57 c)	Rubbers, plastics, sealants

### ■ The Announcement of the 27th 1 SVHC List

The ECHA has added one more chemical Substances of Very High Concern (SVHC) to the Candidate List on 10th June 2022.

The list of the one SVHC and possible applications are shown below:

Substance Name	CAS No.	EC No.	Reason for inclusion	Examples of use(s)
N-(hydroxymethyl)acrylamide	924-42-5	213-103-2	Carcinogenic (Article 57a)	As a monomer for
			Mutagenic (Article 57b)	polymerisation, as a
				fluoroalkyl acrylate
				copolymer, and in paints and
				coatings.

### ■ The Announcement of the 28th 9 SVHCs List

The ECHA has added nine more chemical Substances of Very High Concern (SVHC) to the Candidate List on 17th January 2023.

The list of the nine SVHCs and possible applications are shown below:

Substance Name	EC No.	CAS No.	Reason for inclusion	Examples of use(s)
1,1'-[ethane-1,2-diylbisoxy]bis[2,4,6-tr	253-692-3	37853-59-1	Very persistent and very	While the substance itself is not
ibromobenzene]			bioaccumulative	registered under REACH,
			(REACH Article 57 e)	identification as an SVHC can
				be seen as a measure to avoid
				future regrettable substitution.
2,2',6,6'-tetrabromo-4,4'-isopropylide	201-236-9	79-94-7	Carcinogenic	As a reactive flame retardant
nediphenol			(Article 57 a)	and as an additive flame
				retardant in the manufacture
				of polymer resins, in products
				such as epoxy coated circuit
				boards, printed circuit boards,
				paper and textiles.
4,4'-sulphonyldiphenol	201-250-5	80-09-1	Toxic for reproduction (Article	In the manufacture of: pulp,
			57 c); Endocrine disrupting	paper and paper products,
			properties (Article 57 f –	textile, leather or fur and
			environment); Endocrine	chemicals.
			disrupting properties	
			(Article 57 f – human health)	



Substance Name	EC No.	CAS No.	Reason for inclusion	Examples of use(s)
Barium diboron tetraoxide	237-222-4	13701-59-2	Toxic for reproduction (Article 57 c)	In paints and coatings.
Bis(2-ethylhexyl) tetrabromophthalate covering any of the individual isomers and/or combinations thereof	25		Very persistent and very bioaccumulative (Article 57 e)	As a flame retardant and as a plasticiser for flexible polyvinylchloride and for use in wire and cable insulation, film and sheeting, carpet backing, coated fabrics, wall coverings and adhesives.
Isobutyl 4-hydroxybenzoate	224-208-8	4247-02-3	Endocrine disrupting properties  (Article 57 f – human health)	In the manufacture of substances and in the following products: coating products, fillers, putties, plasters, modelling clay and inks and toners.
Melamine	203-615-4	108-78-1	Equivalent level of concern having probable serious effects to human health (Article 57 f – human health); Equivalent level of concern having probable serious effects to the environment (Article 57 f – environment)	In polymers and resins, coating products, adhesives and sealants, leather treatment products, laboratory chemicals.
Perfluoroheptanoic acid and its salts			Toxic for reproduction (Article 57 c); Persistent, bioaccumulative and toxic (Article 57 d); Very persistent and very bioaccumulative (Article 57 e); Equivalent level of concern having probable serious effects to human health (Article 57 f – human health); Equivalent level of concern having probable serious effects to the environment (Article 57 f – environment)	While the substance itself is not registered under REACH, identification as an SVHC can be seen as a measure to avoid future regrettable substitution.



Substance I	Name	EC No.	CAS No.	Reason for inclusion	Examples of use(s)
reaction	mass of	473-390-7	-	Very persistent and very	Used in articles, by professional
2,2,3,3,5,5,6,6-0	octafluoro-4-(1,1,1,2,3,			bioaccumulative (Article 57 e)	workers (widespread uses), in
3,3-heptafluoro	propan-2-yl)morpholin				formulation or re-packing, at
е	and				industrial sites and in
2,2,3,3,5,5,6,6-0	octafluoro-4-(heptaflu				manufacturing.
oropropyl)morp	holine				

# The Announcement of the 29th 2 SVHCs List

The ECHA has added two more chemical Substances of Very High Concern (SVHC) to the Candidate List on 14th June 2023.

The list of these two SVHCs and possible applications are shown below:

Substance Name	EC No.	CAS No.	Reason for inclusion	Examples of use(s)
Diphenyl(2,4,6-trimethylben	278-355-8	75980-60-8	Toxic for reproduction (Article	Inks and toners, coating products,
zoyl)phosphine oxide			57c)	photo-chemicals, polymers, adhesives
				and sealants and fillers, putties, plasters,
				modelling clay.
Bis(4-chlorophenyl)	201-247-9	80-07-9	Very persistent and very	Manufacture of chemicals, plastic
sulphone			bioaccumulative (Article 57 e)	products and rubber products.

### ■ The Announcement of the 30th 5 SVHCs List

The ECHA has added five more chemical Substances of Very High Concern (SVHC) to the Candidate List on 23rd January 2024.

The list of these five SVHCs and possible applications are shown below:

Substance Name	EC No.	CAS No.	Reason for inclusion	Examples of use(s)
2,4,6-tri-tert-butylphenol	211-989-5	732-26-3	Toxic for reproduction (Article 57c)	Manufacture of another substance;
			Persistent, bioaccumulative and	formulation of mixtures and in fuel
			toxic (PBT) (Article 57d)	products.
2-(2H-benzotriazol-2-yl)-4-	221-573-5	3147-75-9	Very persistent and very	Air care products, coating products,
(1,1,3,3-tetramethylbutyl)			bioaccumulative (vPvB)	adhesives and sealants, lubricants
phenol			(Article 57e)	and greases, polishes and waxes
				and washing and cleaning products.
2-(dimethylamino)-2-[(4-	438-340-0	119344-86-4	Toxic for reproduction (Article 57c)	Inks and toners, coating products.
methylphenyl)methyl]-1-[				
4-(morpholin-4-yl)phenyl]				
butan-1-one				
Bumetrizole	223-445-4	3896-11-5	vPvB	Coating products, adhesives and
			(Article 57e)	sealants and washing and cleaning
				products.





Substance Name	EC No.	CAS No.	Reason for inclusion	Examples of use(s)
Oligomerisation and	700-960-7	-	vPvB	Adhesives and sealants, coating
alkylation reaction			(Article 57e)	products, fillers, putties, plasters,
products of				modelling clay, inks and toners and
2-phenylpropene and				polymers.
phenol				

### ■ The Announcement of the 31st 1 SVHC List

The ECHA has added one more chemical Substance(s) of Very High Concern (SVHC) to the Candidate List on 27th June 2024.

The list of the one SVHC and possible applications are shown below:

Substance Name	EC No.	CAS No.	Reason for inclusion	Examples of use(s)
Bis( $\alpha$ , $\alpha$ -dimethylbenzyl)	201-279-3	80-43-3	Toxic for reproduction (Article	A processing aid and cross-linker in
peroxide			57c)	polymers. Process regulator in
				vulcanisation or polymeration process.
				Flame retardant in articles used by
				professional workers and consumers.

### ■ The Announcement of the 32st 1 SVHC List

The ECHA has added one more chemical Substance(s) of Very High Concern (SVHC) to the Candidate List on 7th November 2024.

The list of the one SVHC and possible applications are shown below:

Substance Name	EC No.	CAS No.	Reason for inclusion	Examples of use(s)
Triphenyl phosphate (TPP)	204-112-2	115-86-6	Endocrine disrupting properties (Article 57(f) - environment)	This substance is used as a flame retardant and plasticiser in polymer formulations, adhesives and sealants.

### ■ The Announcement of the 33st 5 SVHC List

The ECHA has added five more chemical Substance(s) of Very High Concern (SVHC) to the Candidate List on 21st January 2025.

The list of the five SVHCs and possible applications are shown below:

Substance Name	EC No.	CAS No.	Reason for inclusion	Examples of use(s)
6-[(C10-C13)-alkyl-(branche	701-118-1	2156592-54	Toxic for reproduction (Article	Lubricants, greases, release products and
d,		-8	57c)	metal working fluids
unsaturated)-2,5-dioxopyrro				
lidin-1-yl]hexanoic acid				
O,O,O-triphenyl	209-909-9	597-82-0	Persistent, bioaccumulative and	Lubricants and greases
phosphorothioate			toxic, PBT	
			(Article 57d)	



Substance Name	EC No.	CAS No.	Reason for inclusion	Examples of use(s)
Octamethyltrisiloxane	203-497-4	107-51-7	Very persistent, very	Manufacture and/or formulation of:
			bioaccumulative, vPvB	cosmetics, personal/health care
			(Article 57e)	products, pharmaceuticals, washing and
				cleaning products, coating and non-metal
				surface treatment and in sealants and
				adhesives
Perfluamine	206-420-2	338-83-0	Very persistent, very	Manufacture of electrical, electronic and
			bioaccumulative, vPvB	optical equipment and machinery and
	4 7		(Article 57e)	vehicles
Reaction mass of:	421-820-9	192268-65-	Persistent, bioaccumulative and	No active registrations
triphenylthiophosphate and		8	toxic, PBT	
tertiary butylated phenyl			(Article 57d)	
derivatives				

The list now contains 247 entries - some are groups of chemicals so the overall number of impacted chemicals is higher.

This substance may be placed on the Authorisation List in the future. If a substance is on this list, companies cannot use it unless they apply for authorisation and the European Commission authorises its continued use.

- According to REACH regulation, all EU manufacturers or importers of the 247 SVHCs should fulfill either one of the following regulatory obligations:
  - should supply Safety Data Sheet (SDS/MSDS) to their downstream users when the SVHC concerned is sold as a substance on itself; or
  - 2. should supply SDS/MSDS to their downstream users when the SVHC concerned is produced or imported at or above 0.1% w/w in a mixture or preparation; or
  - should supply the product recipient or in request of the product consumers, with availablesufficient information, free of charge, which covers at least the name of the substance, within 45 days on receiving the request, if the SVHC is above 0.1% w/w threshold in an article.
- All EU manufacturers or importers must submit a notification for SVHCs placed on EU market before June 1, 2011 to European Chemicals Agency (ECHA), if the substance is produced or imported above the quantity of 1 tonne per year and its concentration percentage in the article above the threshold of 0.1% w/w.
- Under the Waste Framework Directive, companies also have to notify ECHA if the articles they produce contain substances of very high concern in a concentration above 0.1 % (weight by weight). This notification is published in ECHA's database of substances of concern in products (SCIP).

### **Contact Us**

#### **CIRS Testing**

Address: West of 4/F, No.2 Building, Huaye Hi-Tech Address: CIRS, Regus Harcourt Centre, Dublin, Industrial, No.1180, Bin'an Road, Binjiang District, Ireland, D02 HW77

Hangzhou, Zhejiang, China Tel: +86 571 8720 6587

Email: test@cirs-group.com

# **CIRS EU**

Tel: +353 1 477 3710

Email: service@cirs-group.com