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1 Purpose

In order to comply with the international environmental protection trend, the company has clearly established the restricted substances control specification to suppliers for reference, and required suppliers to strictly obey.

2 Restricted Substances List

2.1 European Union

2.1.1 EU Directive 2015/863/EU was published in June 2015

物質名稱	Substance name	CAS No.	Molecular formula	Restricted content	Remarks
汞	Mercury(Hg)	-	-	<1000ppm If the exception clause is applied, the exception limit value is the main basis.	RoHS (2011/65/EU)
鉛	Lead(Pb)			<1000ppm (Planning to import the standard which Pb<750ppm in December 2020)	

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		-	-	If the exception clause is applied, the exception limit value is the main basis. Steel alloy <3500ppm Aluminum alloy <4000ppm Copper alloy <40000ppm	
鎘	Cadmium(Cd)	-	-	<100ppm	
				If the exception clause is applied, the exception limit value is the main basis.	
六價鉻	Hexavalent chromium(Cr 6+)	-	-	<1000ppm	
多溴聯苯	Polybrominated Biphenyls (PBB)	-	-	<1000ppm	
多溴聯苯醚	Polybrominated Diphenyl Ethers (PBDE)	-	-	<1000ppm	
鄰苯二甲酸二(2-乙基己基)酯	Bis (2-ethylhexyl) phthalate (DEHP)	-	-	<0.1% (1000 ppm)	RoHS2.0 (2015/863/EU)
鄰苯二甲酸甲苯基丁酯	Butyl benzyl phthalate (BBP)	-	-	<0.1% (1000 ppm)	
鄰苯二甲酸二丁酯	Dibutyl phthalate (DBP)	-	-	<0.1% (1000 ppm)	
鄰苯二甲酸二異丁酯	Diisobutyl phthalate (DIBP)	-	-	<0.1% (1000 ppm)	

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2.1.2 Halogen free

NO	Restricted Substances, 限用物質	Restricted Application, 限用範圍	Threshold Level, 限值 (Unit: PPM)	Legal Reference 參考法規
1	Bromine 溴	All Application for halogen-free products, 全適用於無鹵素產品	900	IEC61249-2-21
2	Chlorine 氯	All Application for halogen-free products, 全適用於無鹵素產品	900	IEC61249-2-21
3	Total Br+Cl 溴氯總合	All Application for halogen-free products, 全適用於無鹵素產品	1500	IEC61249-2-21

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2.1.3 EU REACH Regulations on Registration, Evaluation, Authorization and Restriction of Chemical

About the latest SVHC and Annex XVII lists, please refer to following REACH official website

REACH website: <https://echa.europa.eu/candidate-list-table>

物質名稱	Substance name	CAS No.	Molecular formula	Restricted content	Remarks
蒽	Anthracene	120-12-7	C ₁₄ H ₁₀	SVHC<1000ppm	REACH SVHC
二氨基二苯甲烷	4,4'-Methylenedianiline	101-77-9	C ₁₃ H ₁₄ N ₂	SVHC<1000ppm	REACH SVHC
鄰苯二甲酸二丁酯	Dibutylphthalate (DBP)	84-74-2	C ₁₆ H ₂₂ O ₄	SVHC<1000ppm	REACH SVHC
鄰苯二甲酸甲苯基丁酯	Benzyl butyl phthalate (BBP)	85-68-7	C ₁₉ H ₂₀ O ₄	SVHC<1000ppm	REACH SVHC
鄰苯二甲酸二(2-乙基己基) 酯	Di(2-ethylhexyl)phthalate (DEHP)	117-81-7	C ₂₄ H ₃₈ O ₄	SVHC<1000ppm	REACH SVHC
二甲苯麝香	5-tert-butyl-2,4,6-trinitro-m-xylene(musk xylene)	81-15-2	C ₁₂ H ₁₅ N ₃ O ₆	SVHC<1000ppm	REACH SVHC
六溴環十二烷及其同素異構物	Hexabromocyclododecane(HB CDD)and all major diastereoisomers identified(ω-HBCDD,β-HBCDD,γ-HBCDD)	25637-99-4 3194-55-6 134237-50-6 134237-51-7 134237-52-8	C ₁₂ H ₁₈ Br ₆	SVHC<1000ppm	REACH SVHC
氧化雙三丁基錫	Bis(tributyltin)oxide (TBTO)	56-35-9	C ₂₄ H ₅₄ O ₂ Sn ₂	SVHC<1000ppm	REACH SVHC
氯化鈷	Cobalt dichloride	7646-79-9	Cl ₂ Co	SVHC<1000ppm	REACH SVHC

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五氧化二砷	Diarsenic pentoxide	1303-28-2	As ₂ O ₅	SVHC<1000ppm	REACH SVHC
三氧化二砷	Diarsenic trioxide	1327-53-3	As ₂ O ₃	SVHC<1000ppm	REACH SVHC
三乙基砷酸鹽	Triethyl arsenate	15606-95-8	C ₆ H ₁₅ AsO ₄	SVHC<1000ppm	REACH SVHC
砷酸氫鉛	Lead hydrogen arsenate	7784-40-9	AsHO ₄ Pb	SVHC<1000ppm	REACH SVHC
重鉻酸鈉	Sodium dichromate	7789-12-0, 10588-01-9	Cr ₂ Na ₂ O ₇	SVHC<1000ppm	REACH SVHC
蔥油	Anthracene oil, anthracene paste	90640-80-5	-	SVHC<1000ppm	REACH SVHC
蔥油・蔥糊・輕油	Anthracene oil, anthracene paste, distn. Lights	91995-17-4	-	SVHC<1000ppm	REACH SVHC
蔥油・蔥糊・蔥餾分離液	Anthracene oil, anthracene paste, anthracene fraction	91995-15-2	-	SVHC<1000ppm	REACH SVHC
蔥油・含蔥量少	Anthracene oil, anthracene-low	90640-82-7	-	SVHC<1000ppm	REACH SVHC
蔥油・蔥糊	Anthracene oil, anthracene paste	90640-81-6	-	SVHC<1000ppm	REACH SVHC
煤瀝青・高溫	Coal tar pitch, high temperature	65996-93-2	-	SVHC<1000ppm	REACH SVHC
丙烯醯胺	Acrylamide	79-06-1	C ₃ H ₅ NO	SVHC<1000ppm	REACH SVHC
2,4-二硝基甲苯	2,4-Dinitrotoluene	121-14-2	C ₇ H ₆ N ₂ O ₄	SVHC<1000ppm	REACH SVHC
鄰苯二甲酸二異丁酯	Diisobutyl phthalate (DIBP)	84-69-5	C ₁₆ H ₂₂ O ₄	SVHC<1000ppm	REACH SVHC
鉻酸鉛	Lead chromate	7758-97-6	CrO ₄ Pb	SVHC<1000ppm	REACH SVHC
紅色鉍鉻酸鉛硫酸鹽(C.I. 紅色 104)	Lead chromate molybdate sulfate red (C.I. Pigment Red 104)	12656-85-8	PbCrO ₄ , PbMoO ₄ , PbSO ₄	SVHC<1000ppm	REACH SVHC

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黃色硫化鉻酸鉛(C.I.黃色 34)	Lead sulfochromate yellow (C.I. PigmentYellow 34)	1344-37-2	PbCrO ₄ +Pb - SO ₄	SVHC<1000ppm	REACH SVHC
三 2-(氯乙基)磷酸酯	Tris(2-chloroethyl) phosphate	115-96-8	C ₆ H ₁₂ Cl ₃ O ₄ P	SVHC<1000ppm	REACH SVHC
三氯乙烯	Trichloroethylene	79-01-6	C ₂ HCl ₃	SVHC<1000ppm	REACH SVHC
硼酸	Boric acid	10043-35-3	BH ₃ O ₃	SVHC<1000ppm	REACH SVHC
無水四硼酸鈉	Disodium tetraborate, anhydrous	1330-43-4, 1303-96-4, 12179-04-3	B ₄ Na ₂ O ₇	SVHC<1000ppm	REACH SVHC
水合七氧四硼酸二鈉	Tetraboron disodium heptaoxide, hydrate	12267-73-1	B ₄ H ₁₄ Na ₂ O ₈ - ₁₂	SVHC<1000ppm	REACH SVHC
鉻酸鈉	Sodium chromate	7775-11-3	CrNa ₂ O ₄	SVHC<1000ppm	REACH SVHC
鉻酸鉀	Potassium Chromate	7789-00-6	CrK ₂ O ₄	SVHC<1000ppm	REACH SVHC
高鉻酸銨	Ammonium dichromate	7789-09-5	Cr ₂ H ₈ N ₂ O ₇	SVHC<1000ppm	REACH SVHC
重鉻酸鉀	Potassium dichromate	7778-50-9	Cr ₂ K ₂ O ₇	SVHC<1000ppm	REACH SVHC
硫酸鈷(二價)	Cobalt(II) sulphate	10124-43-3	CoSO ₄	SVHC<1000ppm	REACH SVHC
硝酸鈷(二價)	Cobalt(II) nitrate	10141-05-6	CoN ₂ O ₆	SVHC<1000ppm	REACH SVHC
碳酸鈷(二價)	Cobalt(II) carbonate	513-79-1	CoCO ₃	SVHC<1000ppm	REACH SVHC
醋酸鈷(二價)	Cobalt(II) diacetate	71-48-7	Co (COOH) ₂	SVHC<1000ppm	REACH SVHC
乙二醇甲醚	2-Methoxyethanol	109-86-4	C ₃ H ₈ O ₂	SVHC<1000ppm	REACH SVHC
乙二醇乙醚	2-Ethoxyethanol	110-80-5	C ₄ H ₁₀ O ₂	SVHC<1000ppm	REACH SVHC
三氧化鉻	Chromium trioxide	1333-82-0	CrO ₃	SVHC<1000ppm	REACH SVHC
鉻酸	Chromic acid	7738-94-5	H ₂ CrO ₄	SVHC<1000ppm	REACH SVHC
重鉻酸	Dichromic acid	13530-68-2	-	SVHC<1000ppm	REACH SVHC
鉻酸與重鉻酸的其它低聚物	Oligomers of chromic acid and dichromic acid.	-	-	SVHC<1000ppm	REACH SVHC

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乙二醇乙醚乙酸酯 (2-EEA)	2-ethoxyethyl acetate	111-15-9	C ₆ H ₁₂ O ₃	SVHC<1000ppm	REACH SVHC		
鉻酸鋇	Strontium chromate	7789-6-2	SrCrO ₄	SVHC<1000ppm	REACH SVHC		
鄰苯二甲酸二 (C ₇₋₁₁ 支鏈與直鏈) 烷基酯 (DHNUP)	1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters	68515-42-4	-	SVHC<1000ppm	REACH SVHC		
肼	Hydrazine hydrate	7803-57-8; 302-01-2	H ₆ N ₂ O	SVHC<1000ppm	REACH SVHC		
N-甲基吡咯烷酮 (NMP)	1-Methyl-2-pyrrolidinone	872-50-4	C ₅ H ₉ NO	SVHC<1000ppm	REACH SVHC		
1,2,3 三氯丙烷	1,2,3-Trichloropropane	96-18-4	C ₃ H ₅ Cl ₃	SVHC<1000ppm	REACH SVHC		
鄰苯二甲酸二 (C ₆₋₈ 支鏈與直鏈) 烷基酯,富 C ₇ 鏈 (DIHP)	1,2-Benzenedicarboxylic acid, di-C6-8-branched - alkylesters, C7-rich	71888-89-6	C ₂₂ H ₃₄ O ₄	SVHC<1000ppm	REACH SVHC		
鉻酸鉻	Dichromium tris(chromate)	24613-89-6	Cr ₈ O ₂₁	SVHC<1000ppm	REACH SVHC		
氫氧化鉻酸鋅鉀	Potassium hydroxyoctaoxodizincate di-chromate	11103-86-9	Cr ₂ K ₂ O ₈ Zn	SVHC<1000ppm	REACH SVHC		
鋅黃(C.I.顏料黃 36)	Pentazinc chromate octahydroxide	49663-84-5	CrH ₈ O ₁₂ Zn ₅	SVHC<1000ppm	REACH SVHC		
矽酸鋁耐火陶瓷纖維(RCF)	Aluminosilicate Refractory Ceramic Fibres (RCF))	-	Al ₂ O ₅ Si	SVHC<1000ppm Banned	REACH SVHC Customer required		
氧化鋯矽酸鋁耐火陶瓷纖維(Zr-RCF)	Zirconia Aluminosilicate Refractory Ceramic Fibres	-	-	SVHC<1000ppm Banned	REACH SVHC Customer required		
甲醛苯胺共聚物	Formaldehyde, oligomeric reaction products with aniline	25214-70-4	(C ₆ H ₇ N·CH ₂ O) x	SVHC<1000ppm	REACH SVHC		

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甲氧基苯胺	2-Methoxyaniline; o-Anisidine	90-04-0	C ₇ H ₉ NO	SVHC<1000ppm	REACH SVHC
對特辛基苯酚	4-(1,1,3,3-tetramethylbutyl)phenol	140-66-9	C ₁₄ H ₂₂ O	SVHC<1000ppm	REACH SVHC
1,2-二氯乙烷	1,2-Dichloroethane	107-06-2	C ₂ H ₄ Cl ₂	SVHC<1000ppm	REACH SVHC
二乙二醇二甲醚	Bis(2-methoxyethyl) ether	111-96-6	C ₆ H ₁₄ O ₃	SVHC<1000ppm	REACH SVHC
砷酸	Arsenic acid	7778-39-4	H ₃ AsO ₄ .1/2H ₂ O	SVHC<1000ppm	REACH SVHC
砷酸鈣	Calcium arsenate	7778-44-1	As ₂ Ca ₃ O ₈	SVHC<1000ppm	REACH SVHC
砷酸鉛	Trilead diarsenate	3687-31-8	As ₂ O ₈ Pb ₃	SVHC<1000ppm	REACH SVHC
N,N-二甲基乙醯胺	N,N-Dimethylacetamide	127-19-5	C ₄ H ₉ NO	SVHC<1000ppm	REACH SVHC
4,4'-亞甲基雙-2-氯苯胺(MOCA)	2,2'-dichloro-4,4'-methylenedianiline	101-14-4	C ₁₃ H ₁₂ Cl ₂ N ₂	SVHC<1000ppm	REACH SVHC
酚酞	Phenolphthalein	77-09-8	C ₂₀ H ₁₄ O ₄	SVHC<1000ppm	REACH SVHC
疊氮化鉛	Lead diazide, Lead azide	13424-46-9	N ₆ Pb	SVHC<1000ppm	REACH SVHC
2,4,6-三硝基苯二酚鉛	Lead styphnate	15245-44-0	C ₆ HN ₃ O ₈ Pb	SVHC<1000ppm	REACH SVHC
鄰苯二甲酸二甲氧基乙酯	Bis(2-methoxyethyl) phthalate	117-82-8	-	SVHC<1000ppm	REACH SVHC
苦味酸鉛	Lead dipicrate	6477-64-1	Pb(C ₆ H ₂ N ₃ O ₇) ₂	SVHC<1000ppm	REACH SVHC
三甘醇二甲醚(TEGDME)	1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)	112-49-2	C ₈ H ₁₈ O ₄	SVHC<1000ppm	REACH SVHC
1,2-二甲氧基乙烷(EGDME)	1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	110-71-4	C ₄ H ₁₀ O ₂	SVHC<1000ppm	REACH SVHC
三氧化二硼	Diboron trioxide	1303-86-2	B ₂ O ₃	SVHC<1000ppm	REACH SVHC
甲醯胺	Formamide	75-12-7	CH ₃ NO	SVHC<1000ppm	REACH SVHC

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甲基磺酸鉛 Lead(II)	Lead(II)bis(methanesulfonate)	17570-76-2	C ₂ H ₆ O ₆ PbS ₂	SVHC<1000ppm	REACH SVHC		
1,3,5-三(環氧乙烷基甲基)-1,3,5-三嗪-2,4,6-(1H,3H,5H)-三酮立體異構體	1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione (β-TGIC)	59653-74-6	C ₁₂ H ₁₅ N ₃ O ₆	SVHC<1000ppm	REACH SVHC		
1,3,5-三縮水甘油-S-三嗪三酮	1,3,5-Tris(oxiran-2-ylmethyl)-1,3,5-triazine-2,4,6-trione (TGIC)	2451-62-9	C ₁₂ H ₁₅ N ₃ O ₆	SVHC<1000ppm	REACH SVHC		
4,4'-二(N,N-二甲氨基)二苯甲酮;	4,4'-Bis(dimethylamino)benzophenone	90-94-8	C ₁₇ H ₂₀ N ₂ O	SVHC<1000ppm	REACH SVHC		
4,4'-雙(二甲基胺基)-4''-(甲基胺基)三苯甲基醇	4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol [with ≥ 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]	561-41-1	-	SVHC<1000ppm	REACH SVHC		
N,N,N',N'-四甲基-4,4'-二氨基二苯甲烷	N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)	101-61-1	C ₁₇ H ₂₂ N ₂	SVHC<1000ppm	REACH SVHC		
鹼性紫 3	[4-[4,4'-bis(dimethylamino)benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (C.I. Basic Violet 3) [with ≥ 0.1% of Michler's ketone (EC No. 202-027-5) or	548-62-9	C ₂₅ H ₃₀ ClN ₃	SVHC<1000ppm	REACH SVHC		

	Michler's base (EC No. 202-959-2)]				
鹼性藍 26	[4-[[4-anilino-1-naphthyl][4-(dimethylamino)phenyl]methylene]cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride (C.I. Basic Blue 26) [with ≥ 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]	2580-56-5	C ₃₃ H ₃₂ N ₃ .Cl	SVHC<1000ppm	REACH SVHC
溶劑藍 4	α,α-Bis[4-(dimethylamino)phenyl]-4(phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4) [with ≥ 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]	6786-83-0	C ₃₃ H ₃₃ N ₃ O	SVHC<1000ppm	REACH SVHC
全氟十一烷酸	Henicosafuoroundecanoic acid	2058-94-8	C ₁₁ HF ₂₁ O ₂	SVHC<1000ppm	REACH SVHC
全氟十二烷酸	Tricosafuorododecanoic acid	307-55-1	C ₁₂ HF ₂₃ O ₂	SVHC<1000ppm	REACH SVHC
全氟代十四酸	Heptacosafuortetradecanoic acid	376-06-7	C ₁₄ HF ₂₇ O ₂	SVHC<1000ppm	REACH SVHC
偶氮二甲醯胺	Diazene-1,2-dicarboxamide (C,C'-azodi(formamide))	123-77-3	C ₂ H ₄ N ₄ O ₂	SVHC<1000ppm	REACH SVHC

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六氫鄰苯二甲酸酐	Cyclohexane-1,2-dicarboxylic anhydride [1]	85-42-7	C ₈ H ₁₀ O ₃	SVHC<1000ppm	REACH SVHC		
順-1,2-環己烷二羧酸酐	cis-cyclohexane-1,2-dicarboxylic anhydride [2]	13149-00-3	C ₈ H ₁₀ O ₃	SVHC<1000ppm	REACH SVHC		
反-1,2-環己烷二羧酸酐	trans-cyclohexane-1,2-dicarboxylic anhydride [3]	14166-21-3	C ₈ H ₁₀ O ₃	SVHC<1000ppm	REACH SVHC		
甲基六氫苯酐	Hexahydromethylphthalic anhydride [1],	25550-51-0	C ₉ H ₁₂ O ₃	SVHC<1000ppm	REACH SVHC		
4-甲基六氫苯酐	Hexahydro-4-methylphthalic anhydride [2],	19438-60-9	C ₉ H ₁₂ O ₃	SVHC<1000ppm	REACH SVHC		
甲基六氫化鄰苯二甲酸酐	Hexahydro-1-methylphthalic anhydride [3],	48122-14-1	C ₉ H ₁₂ O ₃	SVHC<1000ppm	REACH SVHC		
3-甲基六氫苯二甲酯酐	Hexahydro-3-methylphthalic anhydride	57110-29-9	C ₉ H ₁₂ O ₃	SVHC<1000ppm	REACH SVHC		
4-壬基(支鏈與直鏈)苯酚 (含有線性或分支、共價綁定苯酚的9個碳烷基鏈的物質，包括UVCB物質以及任何含有獨立或組合的界定明確的同分異構體的物質)	4-Nonylphenol, branched and linear [substances with a linear and/or branched alkyl 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]	-	C ₉ H ₁₂ O ₃	SVHC<1000ppm	REACH SVHC		
對特辛基苯酚乙氧基醚 (包括界定明確的物質以	4-(1,1,3,3-tetramethylbutyl)phenol,	-	-	SVHC<1000ppm	REACH SVHC		

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及 UVCB 物質、聚合物和同系物)	ethoxylated [covering well-defined substances and UVCB substances, polymers and homologues]-						
甲氧基乙酸	Methoxyacetic acid	625-45-6	C ₃ H ₆ O ₃ -	SVHC<1000ppm			REACH SVHC
N,N-二甲基甲醯胺	N,N-dimethylformamide	68-12-2	C ₃ H ₇ NO	SVHC<1000ppm			REACH SVHC
二丁基二氯化錫(DBTC)	Dibutyltin dichloride (DBTC)	683-18-1	C ₈ H ₁₈ Cl ₂ Sn	SVHC<1000ppm			REACH SVHC
氧化鉛	Lead monoxide (Lead oxide)	1317-36-8	PbO	SVHC<1000ppm			REACH SVHC
四氧化三鉛	Orange lead (Lead tetroxide)	1314-41-6	Pb ₃ O ₄	SVHC<1000ppm			REACH SVHC
氟硼酸鉛	Lead bis(tetrafluoroborate)	13814-96-5	B ₂ F ₈ Pb	SVHC<1000ppm			REACH SVHC
鹼式碳酸鉛	Trilead bis(carbonate) dihydroxide	1319-46-6	2PbCO ₃ ·Pb (OH) ₂	SVHC<1000ppm			REACH SVHC
鈦酸鉛	Lead titanium trioxide	12060-00-3	PbTiO ₃	SVHC<1000ppm			REACH SVHC
鈦酸鉛鋅	Lead titanium zirconium oxide	12626-81-2	O ₂ PbTiZr	SVHC<1000ppm			REACH SVHC
矽酸鉛	Silicic acid, lead salt	11120-22-2	3PbO·2SiO ₂	SVHC<1000ppm			REACH SVHC
摻雜鉛的矽酸鋇 (鉛含量超出 CLP 指令表述的致生殖毒性 1A、DSD 指令致生殖毒性 1 類的通用限制濃度限值； (EC) No 1272/2008 下指引號為 082-001-00-6 的一組含鉛化合物)	Silicic acid (H ₂ Si ₂ O ₅), barium salt (1:1), lead-doped [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)	68784-75-8	-	SVHC<1000ppm			REACH SVHC

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溴代正丙烷	1-bromopropane (n-propyl bromide)	106-94-5	C ₃ H ₇ Br	SVHC<1000ppm	REACH SVHC
環氧丙烷	Methyloxirane (Propylene oxide)	75-56-9	C ₃ H ₆ O	SVHC<1000ppm	REACH SVHC
支鏈和直鏈 1,2-苯二羧二戊酯	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	84777-06-0	-	SVHC<1000ppm	REACH SVHC
鄰苯二甲酸二異戊酯 (DIPP)	Diisopentylphthalate (DIPP)	605-50-5	-	SVHC<1000ppm	REACH SVHC
鄰苯二甲酸正戊基異戊基酯	N-pentyl-isopentylphthalate	776297-69-9	-	SVHC<1000ppm	REACH SVHC
乙二醇二乙醚	1,2-diethoxyethane	629-14-1	C ₆ H ₁₄ O ₂	SVHC<1000ppm	REACH SVHC
鹼式乙酸鉛	Acetic acid, lead salt, basic	51404-69-4	C ₄ H ₆ O ₄ Pb	SVHC<1000ppm	REACH SVHC
鹼式硫酸鉛	Lead oxide sulfate	12036-76-9	O ₄ PbS	SVHC<1000ppm	REACH SVHC
二鹽基鄰苯二甲酸鉛	[Phthalato(2-)]dioxotrilead	69011-06-9	C ₈ H ₄ O ₄ Pb	SVHC<1000ppm	REACH SVHC
雙(十八酸基)二氧代三鉛	Dioxobis(stearato)trilead	12578-12-0	C ₃₆ H ₇₀ O ₆ Pb ₃	SVHC<1000ppm	REACH SVHC
C16-18 脂肪酸鉛鹽	Fatty acids, C16-18, lead salts	91031-62-8	-	SVHC<1000ppm	REACH SVHC
氨基氰鉛鹽	Lead cyanamidate	20837-86-9	CN ₂ Pb	SVHC<1000ppm	REACH SVHC
硝酸鉛	Lead dinitrate	10099-74-8	N ₂ O ₆ Pb	SVHC<1000ppm	REACH SVHC
氧化鉛與硫酸鉛的複合物	Pentalead tetraoxide sulphate	12065-90-6	O ₈ Pb ₅ S	SVHC<1000ppm	REACH SVHC
顏料黃 41	Pyrochlore, antimony lead yellow	8012-00-8	-	SVHC<1000ppm	REACH SVHC
氧化鉛與硫化鉛的複合物	Sulfurous acid, lead salt, dibasic	62229-08-7	-	SVHC<1000ppm	REACH SVHC
四乙基鉛	Tetraethyllead	78-00-2	C ₈ H ₂₀ Pb	SVHC<1000ppm	REACH SVHC

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三城式硫酸鉛	Tetralead trioxide sulphate	12202-17-4	$\text{Pb}_4(\text{OH})_2\text{O}_2(\text{SO}_4)$	SVHC<1000ppm	REACH SVHC
磷酸氧化鉛	Trilead dioxide phosphonate	12141-20-7	HO_5PPb_3	SVHC<1000ppm	REACH SVHC
呋喃	Furan	110-00-9	$\text{C}_4\text{H}_4\text{O}$	SVHC<1000ppm	REACH SVHC
硫酸二乙酯	Diethyl sulphate	64-67-5	$\text{C}_4\text{H}_{10}\text{O}_4\text{S}$	SVHC<1000ppm	REACH SVHC
硫酸二甲酯	Dimethyl sulphate	77-78-1	$\text{C}_2\text{H}_6\text{O}_4\text{S}$	SVHC<1000ppm	REACH SVHC
3-乙基-2-甲基-2-(3-甲基丁基)惡唑烷	3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	143860-04-2	$\text{C}_{11}\text{H}_{23}\text{NO}$	SVHC<1000ppm	REACH SVHC
地樂酚	Dinoseb (6-sec-butyl-2,4-dinitrophenol)	88-85-7	$\text{C}_{10}\text{H}_{12}\text{N}_2\text{O}_5$	SVHC<1000ppm	REACH SVHC
4,4'-二氨基-3,3'-二甲基二苯甲烷	4,4'-methylenedi-o-toluidine	838-88-0	$\text{C}_{15}\text{H}_{18}\text{N}_2$	SVHC<1000ppm	REACH SVHC
4,4'-二氨基二苯醚及其鹽	4,4'-oxydianiline and its salts	101-80-4	$\text{C}_{12}\text{H}_{12}\text{N}_2\text{O}$	SVHC<1000ppm	REACH SVHC
對氨基偶氮苯	4-aminoazobenzene	60-09-3	-	SVHC<1000ppm	REACH SVHC
2,4-二氨基甲苯	4-methyl-m-phenylenediamine (toluene-2,4-diamine)	95-80-7	$\text{C}_7\text{H}_{10}\text{N}_2$	SVHC<1000ppm	REACH SVHC
2-甲氧基-5-甲基苯胺	6-methoxy-m-toluidine (p-cresidine)	120-71-8	$\text{C}_8\text{H}_{11}\text{NO}$	SVHC<1000ppm	REACH SVHC
4-氨基聯苯	Biphenyl-4-ylamine	92-67-1	$\text{C}_{12}\text{H}_{11}\text{N}$	SVHC<1000ppm	REACH SVHC
鄰氨基偶氮甲苯	o-aminoazotoluene	97-56-3	$\text{C}_{14}\text{H}_{15}\text{N}_3$	SVHC<1000ppm	REACH SVHC
鄰甲基苯胺	o-toluidine	95-53-4	$\text{C}_7\text{H}_9\text{N}$	SVHC<1000ppm	REACH SVHC
N-甲基乙醯胺	N-methylacetamide	79-16-3	$\text{C}_3\text{H}_7\text{NO}$	SVHC<1000ppm	REACH SVHC
全氟十三烷酸	Pentacosafuorotridecanoic acid	72629-94-8	$\text{C}_{13}\text{HF}_{25}\text{O}_2$	SVHC<1000ppm	REACH SVHC
氧化鎘	Cadmium oxide	1306-19-0	CdO	SVHC<1000ppm	REACH SVHC

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全氟辛酸鈹 (APFO)	Ammoniumpentadecafluorooctanoate (APFO)	3825-26-1	C ₈ H ₄ F ₁₅ NO ₂	SVHC<1000ppm	REACH SVHC
全氟辛酸 (PFOA)	Pentadecafluorooctanoic acid (PFOA)	335-67-1	C ₈ HF ₁₅ O ₂	SVHC<1000ppm	REACH SVHC
鄰苯二甲酸二戊(DPP)	Dipentyl phthalate(DPP)	131-18-0	C ₁₈ H ₂₆ O ₄	SVHC<1000ppm	REACH SVHC
支鏈及直鏈乙氧基壬基酚- 包括含有 9 個碳烷基鏈及 所有含有含直鏈或支鏈之 9 個碳烷基鏈 UVCB 物 質、聚合物及同系物，包 括獨立同分異構物及複合 物	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]	-	-	SVHC<1000ppm	REACH SVHC
C.I. 直接紅 28	Disodium 3,3'-[[1,1'-biphenyl]- 4,4'-diylbis(azo)]bis(4- aminonaphthalene-1- sulphonate) (C.I. Direct Red 28)	573-58-0	C ₃₂ H ₂₂ N ₆ O ₆ S ₂ Na ₂	SVHC<1000ppm	REACH SVHC
鄰苯二甲酸二己酯	Dihexyl phthalate	84-75-3	C ₂₀ H ₃₀ O ₄	SVHC<1000ppm	REACH SVHC
C.I. 直接黑 38	Disodium 4-amino-3-[[4'- [(2,4-diaminophenyl)azo][1,1'- biphenyl]-4-yl]azo] -5- hydroxy-6- (phenylazo)naphthalene-2,7-	1937-37-7	C ₃₄ H ₂₉ N ₉ Na ₂ O ₇ S ₂	SVHC<1000ppm	REACH SVHC

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	disulphonate (C.I. Direct Black 38)				
亞乙基硫脲	Imidazolidine-2-thione;2-imidazoline-2-thiol	96-45-7	C ₃ H ₆ N ₂ S	SVHC<1000ppm	REACH SVHC
醋酸鉛	Lead di(acetate)	301-04-2	C ₄ H ₆ O ₄ Pb	SVHC<1000ppm	REACH SVHC
磷酸三(二甲苯)酯	Trixylyl phosphate	25155-23-1	C ₂₄ H ₂₇ O ₄ P	SVHC<1000ppm	REACH SVHC
氯化鎘	Cadmium chloride	10108-64-2	CdCl	SVHC<1000ppm	REACH SVHC
過硼酸鈉	Sodium peroxometaborate	7632-04-4	NaBO ₃	SVHC<1000ppm	REACH SVHC
過硼酸鈉水合物	Sodium perborate ; perboric acid, sodium salt	-	-	SVHC<1000ppm	REACH SVHC
鄰苯二甲酸二己酯 (支鏈和直鏈)	1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	68515-50-4	C ₂₀ H ₃₀ O ₄	SVHC<1000ppm	REACH SVHC
硫酸鎘	Cadmium sulphate	10124-36-4, 31119-53-6	CdSO ₄	SVHC<1000ppm	REACH SVHC
氟化鎘	Cadmium fluoride	7790-79-6	CdF	SVHC<1000ppm	REACH SVHC
紫外線吸收劑 328 ; 2-(2'-羥基-3',5'-二叔戊基苯基)苯並三唑	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol(UV-328)	25973-55-1	C ₂₂ H ₂₉ N ₃ O	SVHC<1000ppm	REACH SVHC
紫外線吸收劑 320 ; 2-(2'-羥基-3',5'-二叔丁基苯基)-苯並三唑	2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	3846-71-7	C ₂₀ H ₂₅ N ₃ O	SVHC<1000ppm	REACH SVHC
10-乙基-4,4-二辛基-7-氧-8- 氧代-3,5-二硫代-4-錫代十四 酸 2-乙基己酯和 10-乙基-4- [[2-[(2-乙基己基)氧]-2-氧乙 基]硫	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-	-	-	SVHC<1000ppm	REACH SVHC

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代]-4-辛基-7-氧-8-氧代-3,5-二硫代-4-錫代十四酸 2-乙基己酯的反應產物(DOTE 和 MOTE 的反應產物)	ethylhexyl]oxy]-2-oxoethyl]thio]-4-octyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (reaction mass of DOTE and MOTE)				
二正辛基-雙(巰乙酸 2-乙基己酯)錫; DOTE	2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE)	15571-58-1	$C_{36}H_{72}O_4S_2Sn$	SVHC<1000ppm	REACH SVHC
鄰苯二甲酸二(C6-C6)烷基酯:(癸基·己基·辛基)酯與1,2-鄰苯二甲酸的複合物且鄰苯二甲酸二己酯含量≥0.3%	1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters; 1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with ≥ 0.3% of dihexyl phthalate	68515-51-5 68648-93-1	$C_{24}H_{38}O_4$	SVHC<1000ppm	REACH SVHC
包含以下[1]與[2]之所有單獨立體異構物與其組成。 [1]5-二級丁基-2-(2,4-二甲基環己-3-烯-1-基)-5-甲基-1,3-二【口罅】【口束】 [2]5-二級丁基-2-(4,6-二甲基環己-3-烯-1-基)-5-甲基-1,3-二【口罅】【口束】	5-sec-butyl-2-(2,4-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [1], 5-sec-butyl-2-(4,6-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [2] [covering any of the individual isomers of [1] and [2] or any combination thereof]	-	-	SVHC<1000ppm	REACH SVHC
硝基苯	Nitrobenzene	98-95-3	$C_6H_5NO_2$	SVHC<1000ppm	REACH SVHC

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2,4-二-叔丁基-6-(5-氯代苯並三唑-2-基)苯酚	2,4-Di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)	3864-99-1	C20H24ClN3O	SVHC<1000ppm	REACH SVHC		
2-(2H-苯並三唑-2-基)-4-(叔丁基)-6-(仲丁基)苯酚	2-(2H-Benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350)	36437-37-3	C20H25N3O	SVHC<1000ppm	REACH SVHC		
1,3-丙烷磺內酯	1,3-Propanesultone	1120-71-4	C3H6O3S	SVHC<1000ppm	REACH SVHC		
全氟壬酸及其鈉鹽和銨鹽	Perfluorononan-1-oic-acid and its sodium and ammonium salts	375-95-1 21049-39-8 84149-60-4	C9HF17O2	SVHC<1000ppm	REACH SVHC		
苯並[def]屈 (苯並[a]芘)	Benzo[def]chrysene (Benzo[a]pyrene)	50-32-8	C20H12	SVHC<1000ppm	REACH SVHC		
雙酚 A (BPA)	4,4'-isopropylidenediphenol (Bisphenol A)	80-05-7	C15H16O2	SVHC<1000ppm	REACH SVHC		
十九氟癸酸及其鈉和銨鹽	Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts Nonadecafluorodecanoic acid, Decanoic acid, nonadecafluoro-, sodium salt Ammonium nonadecafluorodecanoate	335-76-2 3830-45-3 3108-42-7	C10HF19O2 - C10HF19O2.H3N	SVHC<1000ppm	REACH SVHC		
支鏈與直鏈的 4-庚基酚 (4-HPBI)	4- heptylphenol branched and linear chain (4-HPBI)	-	C4H6O2	SVHC<1000ppm	REACH SVHC		
對-(1,1-二甲基丙基)苯酚	p-(1,1-dimethylpropyl)phenol	80-46-6	C11H16O	SVHC<1000ppm	REACH SVHC		
全氟已-1-磺酸及其鹽類	Perfluorohexane-1-sulphonic acid and its salts(PFHxS)	-	-	SVHC<1000ppm	REACH SVHC		

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1,2-苯并菲	Chrysene	218-01-9, 1719-03-5	C18H12	SVHC<1000ppm	REACH SVHC	
苯[a]蔥	Benz[a]anthracene	56-55-3, 1718-53-2	C18H12	SVHC<1000ppm	REACH SVHC	
硝酸鎘	Cadmium nitrate	10022-68-1, 10325-94-7	Cd(NO3)2	SVHC<1000ppm	REACH SVHC	
氫氧化鎘	Cadmium hydroxide	21041-95-2	CdH2O2	SVHC<1000ppm	REACH SVHC	
碳酸鎘	Cadmium carbonate	513-78-0	CdCO3	SVHC<1000ppm	REACH SVHC	
1,6,7,8,9,14,15,16,17,17,18,18- 十 二 氯 五 環 [12.2.1.16,9.02,13.05,10] 十 八 碳 -7,15- 二 烯 (“Dechlorane Plus” TM)[含有其任何單獨的反式和順式異構體或其任何組合]	1,6,7,8,9,14,15,16,17,17,18,18-Dodecachloropentacyclo[12.2.1.16,9.02,13.05,10]octadeca-7,15-diene (“Dechlorane Plus” TM) [covering any of its individual anti- and syn-isomers or any combination thereof]	-	-	SVHC<1000ppm	REACH SVHC	
1,3,4-噻二唑-2,5-二硫醇與甲醛和支鏈和直鏈 4-庚基酚的反應產物(RP-HP) [含有≥0.1% w/w 支鏈和直鏈的 4-庚基酚]	Reaction products of 1,3,4-thiadiazolidine-2,5-dithione, formaldehyde and 4-heptylphenol, branched and linear (RP-HP) [with ≥0.1% w/w 4-heptylphenol, branched and linear]	-	-	SVHC<1000ppm	REACH SVHC	
氫化三聯苯	Terphenyl hydrogenated	61788-32-7	-	SVHC<1000ppm	REACH SVHC	
八甲基環四矽氧烷	Octamethylcyclotetrasiloxane (D4)	556-67-2	-	SVHC<1000ppm	REACH SVHC	

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鉛	Lead	7439-92-1	-	SVHC<1000ppm	REACH SVHC		
乙二胺	Ethylenediamine	107-15-3	-	SVHC<1000ppm	REACH SVHC		
十二甲基環六矽氧烷	Dodecamethylcyclhexasiloxane (D6)	540-97-6	-	SVHC<1000ppm	REACH SVHC		
氧化硼鈉	Disodium octaborate	12008-41-2	-	SVHC<1000ppm	REACH SVHC		
鄰苯二甲酸二環己酯	Dicyclohexyl phthalate (DCHP)	84-61-7	-	SVHC<1000ppm	REACH SVHC		
十甲基環五矽氧烷	Decamethylcyclopentasiloxane (D5)	541-02-6	-	SVHC<1000ppm	REACH SVHC		
苯並(G,H,I)芘	Benzo[ghi]perylene	191-24-2	-	SVHC<1000ppm	REACH SVHC		
1,2,4-苯三甲酸酐	Benzene-1,2,4-tricarboxylic acid 1,2-anhydride (trimellitic anhydride) (TMA)	552-30-7	-	SVHC<1000ppm	REACH SVHC		
2,2-雙(4-羥基苯基)-4-甲基戊烷	2,2-bis(4'-hydroxyphenyl)-4-methylpentane	6807-17-6	-	SVHC<1000ppm	REACH SVHC		
苯駢(k)螢蔥	Benzo[k]fluoranthene	207-08-9	-	SVHC<1000ppm	REACH SVHC		
苯駢芴	Fluoranthene	206-44-0 93951-69-0	-	SVHC<1000ppm	REACH SVHC		
菲	Phenanthrene	85-01-8	-	SVHC<1000ppm	REACH SVHC		
芘	Pyrene	129-00-0 1718-52-1	-	SVHC<1000ppm	REACH SVHC		
1,7,7-三甲基-3-(苯亞甲基)雙環[2,2,1]庚-2-酮	1,7,7-trimethyl-3-(phenylmethylene)bicyclo[2.2.1]heptan-2-one 3-benzylidene camphor; 3-BC	15087-24-8	-	SVHC<1000ppm	REACH SVHC		
三(4-壬基苯基·支鍊和直鍊)亞磷酸酯(TNPP) (4-壬基酚 4-NP·支鍊和直鍊濃	Tris(4-nonylphenyl, branched and linear) phosphite (TNPP) with ≥ 0.1% w/w of 4-	-	-	SVHC<1000ppm	REACH SVHC		

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度≥ 0.1%重量比)	nonylphenol, branched and linear (4-NP)						
4-叔丁基苯酚	4-tert-butylphenol	98-54-4	-	SVHC<1000ppm	REACH SVHC		
2-甲氧基乙酸乙酯	2-methoxyethyl acetate	110-49-6	-	SVHC<1000ppm	REACH SVHC		
2,3,3,3-四氟-2- (七氟丙氧基)丙酸 · 即其鹽類與鹵化醃類 (包括它們各自的異構物及其組合)	2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propionic acid, its salts and its acyl halides	-	-	SVHC<1000ppm	REACH SVHC		
2-苄基-2-二甲胺基-4'-【口末】啉丁醃苯	2-benzyl-2-dimethylamino-4'-morpholinobutyrophenone	119313-12-1	C23H30N2O2	SVHC<1000ppm	REACH SVHC		
2-甲基-1-(4-甲基硫苯基)-2【口末】啉丙-1-酮	2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one	71868-10-5	C15H21NO2S	SVHC<1000ppm	REACH SVHC		
鄰苯二甲酸二異己酯	Diisohexyl phthalate	71850-09-4	C20H30O4	SVHC<1000ppm	REACH SVHC		
全氟丁烷磺酸及其鹽類	Perfluorobutane sulfonic acid (PFBS) and its salts	-	-	SVHC<1000ppm	REACH SVHC		
1-乙烯基咪唑	1-vinylimidazole	1072-63-5	---	SVHC<1000ppm	REACH SVHC		
2-甲基咪唑	2-methylimidazole	693-98-1	---	SVHC<1000ppm	REACH SVHC		
4-羥基苯甲酸丁酯	butyl 4-hydroxybenzoate	94-26-8	---	SVHC<1000ppm	REACH SVHC		
二丁基雙(2,4-戊二酮基)錫	Dibutylbis(pentane-2,4-dionato-O,O')tin	22673-19-4	---	SVHC<1000ppm	REACH SVHC		
四乙二醇二甲醚	bis(2-(2-methoxyethoxy) ethyl) ether	143-24-8	---	SVHC<1000ppm	REACH SVHC		
二月桂酸二辛基錫, 錫烷 · 二辛基 · 雙椰油醃氧基衍生物 · 及其它錫烷 · 二辛基 · 雙脂肪醃氧基衍生物(其	Dioctyltin dilaurate, stannane, dioctyl-, bis(coco acyloxy) derivs., and any other stannane, dioctyl-, bis(fatty acyloxy)	---	---	SVHC<1000ppm	REACH SVHC		

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中 C12 為脂肪醯氧基部分的主要碳原子數)	derivs. wherein C12 is the predominant carbon number of the fatty acyloxy moiety				
2-(4-叔丁基苄基)丙醛及其各自立體異構物	2-(4-tert-butylbenzyl) propionaldehyde and its individual stereoisomers	---	---	SVHC<1000ppm	REACH SVHC
硼酸鈉鹽	Orthoboric acid, sodium salt	13840-56-7	---	SVHC<1000ppm	REACH SVHC
2,2-雙(溴甲基)-1,3-丙二醇	2,2-bis(bromomethyl)propane1,3-diol (BMP)	3296-90-0	---	SVHC<1000ppm	REACH SVHC
3-溴-2,2-雙(溴甲基)-1-丙醇	2,2-dimethylpropan-1-ol, tribromo derivative	36483-57-5/			
	3-bromo-2,2-bis(bromomethyl)-1-propanol (TBNPA)	1522-92-5			
2,3-二溴-1-丙醇	2,3-dibromo-1-propanol (2,3-DBPA)	96-13-9			
戊二醛	Glutaral	111-30-8	---	SVHC<1000ppm	REACH SVHC
中鏈氯化石蠟[UVCB物質包含大於或等於80%的直鏈氯代烷烴，碳鏈長度在C14至C17範圍內]	Medium-chain chlorinated paraffins (MCCP) [UVCB substances consisting of more than or equal to 80% linear chloroalkanes with carbon chain lengths within the range from C14 to C17]	---	---	SVHC<1000ppm	REACH SVHC

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透過由寡聚物反應烷基化的酚產物(主要在對位位置)具有12個碳支鏈或直鏈，並涵蓋其他同分異構物與/或其它組合	Phenol, alkylation products (mainly in para position) with C12-rich branched alkyl chains from oligomerisation, covering any individual isomers and/ or combinations thereof (PDDP)	---	---	SVHC<1000ppm	REACH SVHC
1,4-二氧陸園	1,4-dioxane	123-91-1	---	SVHC<1000ppm	REACH SVHC
雙酚B	4,4'-(1-methylpropylidene) bisphenol; (bisphenol B)	77-40-7	---	SVHC<1000ppm	REACH SVHC
三(2-甲氧基乙氧基)乙烯基矽烷	tris(2-methoxyethoxy)vinylsilane	1067-53-4	---	SVHC 濃度<0.1 %	REACH SVHC
硫-(三環[5.2.1.0' ² ,6]癸-3-烯-8(或9)-基) 氧-(異丙基或異丁基或2-乙基己基) 氧-(異丙基或異丁基或2-乙基己基)二硫代磷酸酯	S-(tricyclo[5.2.1.0' ² ,6]deca-3-en-8(or 9)-yl O-(isopropyl or isobutyl or 2-ethylhexyl) O-(isopropyl or isobutyl or 2-ethylhexyl) phosphorodithioate	255881-94-8	---	SVHC 濃度<0.1 %	REACH SVHC
6,6'雙二叔丁基-2,2'-亞甲基雙對甲酚 (DBMC)	6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol	119-47-1	---	SVHC 濃度<0.1 %	REACH SVHC
(±)-1,7,7-三甲基-3-[(4-甲基苯基)亞甲基]二環[2.2.1]庚烷-2-酮，包括各個異構體和/或其組合 (4-MBC)	(±)-1,7,7-trimethyl-3-[(4-methylphenyl)methylene]bicyclo[2.2.1]heptan-2-one covering any of the individual isomers and/or combinations thereof (4-MBC)		---	SVHC 濃度<0.1 %	REACH SVHC

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	(3E)-1,7,7-trimethyl-3-(4-methylbenzylidene)bicyclo[2.2.1]heptan-2-one (1R,3E,4S)-1,7,7-trimethyl-3-(4-methylbenzylidene)bicyclo[2.2.1]heptan-2-one (1S,3Z,4R)-1,7,7-trimethyl-3-(4-methylbenzylidene)bicyclo[2.2.1]heptan-2-one (±)-1,7,7-trimethyl-3-[(4-methylphenyl)methylene]bicyclo[2.2.1]heptan-2-one (1R,4S)-1,7,7-trimethyl-3-(4-methylbenzylidene)bicyclo[2.2.1]heptan-2-one (1S,3E,4R)-1,7,7-trimethyl-3-(4-methylbenzylidene)bicyclo[2.2.1]heptan-2-one (1R,3Z,4S)-1,7,7-trimethyl-3-(4-methylbenzylidene)bicyclo[2.2.1]heptan-2-one	1782069-81-1 95342-41-9 852541-25-4 36861-47-9 741687-98-9 852541-30-1 852541-21-0			

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2.1.4 REACH Annex XVII

物質名稱	Substance name	CAS No.	Molecular formula	Restricted content	Remarks
多氯代三聯苯	Polychlorinated Terphenyls (PCTs)	-	-	Banned	REACH Annex XVII
氯乙烯	Chloroethylene (Vinyl chloride)	75-01-4	CH ₂ CHCl	Propellant in aerosols: Banned	REACH Annex XVII
磷酸三(2,3-二溴丙基)酯	Tris(2,3-Dibromopropyl)phosphate	126-72-7	C ₉ H ₁₅ Br ₆ O ₄ P	textile: Banned	REACH Annex XVII
單甲基二溴二苯基甲烷	Monomethyl-dibromo-diphenyl methane(DBBT)	99688-47-8	C ₁₄ H ₁₂ Br ₂	Banned	REACH Annex XVII
溴苯甲基甲苯異構物混合物	Bromobenzylbromotoluene, mixture of isomers	-	-	Banned	REACH Annex XVII
鎳及其化合物	Nickel and its compounds	7440-02-0	Ni	Shall not be used: (a) in any post assemblies which are inserted into pierced ears and other pierced parts of the human body unless the rate of nickel release from such post assemblies is less than 0,2 µg/cm ² /week; (b) in articles intended to come into direct and prolonged contact with the skin	REACH Annex XVII
(硫酸鉛)硫化物	sulphuric acid, lead salt	7446-14-2 15739-80-7	PbxSO ₄	Paints: Banned	REACH Annex XVII

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氯化烷烴(10-13 個碳原子)	Alkanes,C10-C13	608-73-1	C6H6Cl6	Banned	REACH Annex XVII
短鏈氯化石蠟	Short-chain chlorinated paraffins	85535-84-8	-	Banned	REACH Annex XVII
硫化鉛	LEAD(II) SULFIDE	1314-87-0	PbS	Banned	REACH Annex XVII
單甲基二氯二苯基甲烷 商品名：Ugilec 121 · Ugilec 21	Monomethyl-dichloro-diphenyl methane	-	-	Banned	REACH Annex XVII
中性無水碳酸鉛(碳酸 鉛)	Cerussite;Dibasic lead carbonate;Lead(2+)carbonate;Plumbous carbonate	598-63-0	CH2O3Pb	Banned	REACH Annex XVII
根據理事會指令 67/548/EEC 和指令 1999/45/EC 視為危險的液體物質或製 備	Liquid substances or preparations, which are regarded as dangerous according to the definitions in Council Directive 67/548/EEC and Directive 1999/45/EC	-	-	Ornamental articles intended to produce light or colour effects, tricks and jokes, and games: : Banned Extra labelling requirement for lamp oils and grill lighters	REACH Annex XVII
苯	Benzene	71-43-2	C ₆ H ₆	Toys or toy parts (free status) <5ppm Article <1000ppm	REACH Annex XVII
石棉纖維： a. 青石棉 b. 鐵石棉 c. 直閃石 d. 陽起石 e. 透閃石 f. 溫石棉	Asbestos fibres (a)Crocidolite (b) Amosite (c)Anthophyllite (d)Actinolite (e) Tremolite (f) Chrysotile	12001-28-4 12172-73-5 77536-67-5 77536-66-4 77536-68-6 12001-29-5 & 132207-32-0	-	Banned	REACH Annex XVII
絕育磷(TEPA)	Tris(1-aziridinyl)phosphine oxide (TEPA)	545-55-1	C6H12N3O P	Textile articles: Banned	REACH Annex XVII

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聚溴二苯；聚溴化二苯 (PBB)	Polybromobiphenyls; Polybrominatedbiphenyls (PBB)	59536-65-1	-	Textile articles: Banned	REACH Annex XVII
(a)肥皂樹皮粉 (Quillaja saponaria) 及其含有皂苷的衍生物 (b)Helleborus viridis 和 Helleborus (毛根料)樹根的粉末 (c) Veratrum album 和 Veratrum nigrum(藜蘆) 樹根粉 (d)對二胺基聯苯和或其衍生物 (e)鄰-硝基苯甲醛 (f)木材粉	(a) Soap bark powder (Quillaja saponaria) and its derivatives containing saponines (b) Powder of the roots of Helleborus viridis and Helleborus niger (c) Powder of the roots of Veratrum album and Veratrum nigrum (d) Benzidine and/or its derivatives (e) o-Nitrobenzaldehyde (f) Wood powder	68990-67-0 92-87-5 552-89-6	-	Jokes and hoaxes, or mixtures or articles intended to be used as such: Banned	REACH Annex XVII
硫化銨 硫氫化銨 多硫化銨	Ammonium sulphide Ammonium hydrogen sulphide Ammonium polysulphide	12135-76-1 12124-99-1 9080-17-5	-	Jokes and hoaxes, or mixtures or articles intended to be used as such: Banned	REACH Annex XVII
溴乙酸的揮發酯類： 溴乙酸甲酯 溴乙酸乙酯 溴乙酸丙酯 溴乙酸丁酯	.Volatile esters of bromoacetic acids: Methyl bromoacetate Ethyl bromoacetate Propyl bromoacetate Butyl bromoacetate	96-32-2 105-36-2 35223-80-4 18991-98-5	-	Jokes and hoaxes, or mixtures or articles intended to be used as such: Banned	REACH Annex XVII
2-萘胺及其鹽 對二氨基聯苯及其鹽 4-硝基聯苯	2-Naphthylamine and its salts Benzidine and its salts 4-Nitrobiphenyl	91-59-8 92-87-5 92-93-3 92-67-1	-	Substances or in mixtures <1000ppm	REACH Annex XVII

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4-氨基聯苯;苯基苯胺及其鹽	4-Aminobiphenyl xenylamine and its salts				
鉛的碳化物 a) 中性無水碳酸鉛 (PbCO ₃) b) 三鉛-二碳酸根-氫氧化鉛的硫化物 a) PbSO ₄ (1:1) b) Pb _x SO ₄	Lead carbons: (a)Neutral anhydrous carbonate (PbCO ₃) (b)Trilead-bis(carbonate)dihydroxide 2 Pb CO ₃ -Pb(OH) ₂ Lead sulphates (a) PbSO ₄ (1:1) (b) Pb _x SO ₄	598-63-0 1319-46-6 7446-14-2 15739-80-7	-	Paints: Banned	REACH Annex XVII
汞化合物	Mercury compound	-	-	Banned: Substances or in mixture for preventing the fouling by micro-organisms, plants or animals, preservation of wood, impregnation of heavy-duty industrial textiles and treatment of industrial waters	REACH Annex XVII
汞	Mercury	7439-97-6	-	Thermometers and certain measuring devices: Banned	REACH Annex XVII
砷化合物	Arsenic compounds	-	-	Substances or in mixture for preventing the fouling by micro-organisms, plants or animals, preservation of wood and treatment of industrial waters: Banned	REACH Annex XVII
有機錫化合物	Organostannic compounds	-	-	Banned as biocides in free association paint and for preventing the fouling by micro-organisms, plants or animals. Banned in use for the treatment of industrial waters. The concentration of Tributyltin (TBT) compounds, triphenyltin (TPT) compounds, Dibutyltin (DBT) compounds, and Dioctyltin (DOT) compounds in articles supplied to the public and	REACH Annex XVII

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				their parts shall be less than 0.1 % by weight of tin. Typical articles include textile, gloves and childcare articles.	
二-μ-氧-正丁基錫羥基硼烷 二丁基錫氫硼烷 (C ₈ H ₁₉ BO ₃ Sn(DBB))	Di-μ- oxo- di- n- butylstanniohydroxyborane dibutyltin hydrogen borate; C ₈ H ₁₉ BO ₃ Sn(DBB)	75113-37-0	-	<1000ppm	REACH Annex XVII
五氯代苯酚及其鹽類和酯類	Pentachlorophenol	87-86-5	-	<1000ppm	REACH Annex XVII
鎘及其化合物	Cadmium	7440-43-9	-	The concentration of cadmium (expressed as Cd metal) in mixtures and articles produced from plastic materials (such as PVC), brazing fillers, metal beads, metal parts of jewellery shall be less than 0.01%. The limit is 0.1% for recovered PVC. Shall not be used or placed on the market in paints with codes [3208] [3209] in a concentration (expressed as Cd metal) equal to or greater than 0,01 % by weight. Shall not be used for cadmium plating metallic articles or components of the articles used in certain applications.	REACH Annex XVII
單甲基四氯二苯基甲烷 商品名：Ugilec 141	Monomethyl – tetrachlorodiphenyl methane Trade name: Ugilec 141	76253-60-6	-	Banned	REACH Annex XVII
* 屬於 EC 1272/2008 號法規附件 VI 第 3 部分中列為 1A 類或 1B 類致癌物質 (表 3.1) 或 1 類或 2 類致癌物質的物質 (表 3.2)	* Substances which appear in Part 3 of Annex VI to Regulation (EC) No 1272/2008 classified as carcinogen category 1A or 1B (Table 3.1) or carcinogen category 1 or 2 (Table 3.2)	-	-	Shall not be placed on the market, or used, as substances, as constituents of other substances, or, in mixtures, for supply to the general public if the individual concentration exceeds concentration limits (0.1%).	REACH Annex XVII

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* 屬於 EC 1272/2008 號法規附件 VI 第 3 部分中列為基因突變性物質類別 1A 或 1B(表 3.1)或致突變性物質類別 1 或 2 的物質(表 3.2) * 屬於 EC 1272/2008 號法規附件 VI 第 3 部分中的物質被歸類為生殖毒性物質類別 1A 或 1B (表 3.1) 或致生殖毒性物質類別 1 或 2 的物質 (表 3.2)		* Substances which appear in Part 3 of Annex VI to Regulation (EC) No 1272/2008 classified as germ cell mutagen category 1A or 1B (Table 3.1) or mutagen category 1 or 2 (Table 3.2) * Substances which appear in Part 3 of Annex VI to Regulation (EC) No 1272/2008 classified as toxic to reproduction category 1A or 1B (Table 3.1) or toxic to reproduction category 1 or 2 (Table 3.2)					
(a)雜酚油；清洗用油 (b)雜酚油；清洗用油((c)石腦油蒸餾物 (d)雜酚油· 萘的餾分；清洗用 (e)乾餾油 (煤焦油) · 上層餾分； 重蔥油 (f)蔥油(Anthracene oil) (g)焦油酸· 煤· 原油；粗苯酚 (h)雜酚油· 木材 (i)鹼性的低溫焦油；煤取物中的鹼性低溫焦油		(a) creosote; wash oil (b) creosote oil; wash oil (c)distillates (coal tar), naphthalene oils; naphthalene oil (d)creosote oil, acenaphthene fraction; wash oil (e)distillates (coal tar), upper; heavy anthracene oil (f)anthracene oil (g) tar acids, coal, crude; crude phenols (h) creosote, wood (i) low temperature tar oil, alkaline; extract residues (coal), low temperature coal tar alkaline		(a)8001-58-9 (b)61789-28-4 (c)84650-04-4 (d)90640-84-9 (e)65996-91-0 (f)90640-80-5 (g)65996-85-2 (h)8021-39-4 (i)122384-78-5	-	Substance or in mixtures for wood treatment: Banned	REACH Annex XVII

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氯仿 1, 1, 2-三氯乙烷 1, 1, 2, 2-四氯乙烷 1, 1, 1, 2-四氯乙烷 五氯乙烷 1, 1-二氯乙烯	Chloroform 1,1,2 Trichloroethane 1,1,2,2 Tetrachloroethane 1,1,1,2 Tetrachloroethane Pentachloroethane 1,1 Dichloroethylene	67-66-3 79-00-5 79-34-5 630-20-6 76-01-7 75-35-4	-	Shall not be placed on the market, or used, as substances, as constituents of other substances, or in mixtures in concentrations equal to or greater than 0,1 % by weight, where the substance or mixture is intended for supply to the general public and/or is intended for diffusive applications such as in surface cleaning and cleaning of fabrics.	REACH Annex XVII		
物質分類為可燃物，氣體類別 1 或 2，易燃 液體類別 1·2 或 3，易燃固體第 1 類或 2，物質和混合物，在 與水接觸，放出 易燃 氣體·第 1 類·2 或 3，發火 液體類 或 易燃固體類 1，無論 無論他們出現在規範 1272/2008 第 3 部分附件 VI 或不是	Substances classified as flammable gases category 1 or 2, flammable liquids categories 1, 2 or 3, flammable solids category 1 or 2, substances and mixtures which, in contact with water, emit flammable gases, category 1, 2 or 3, pyrophoric liquids category 1 or pyrophoric solids category 1, regardless of whether they appear in Part 3 of Annex VI to Regulation (EC) No 1272/2008 or not	-	-	Shall not be used, as substance or as mixtures in aerosol dispensers where these aerosol dispensers are intended for supply to the general public for entertainment and decorative purposes	REACH Annex XVII		
六氯乙烷	Hexachloroethane	67-72-1	-	Substance or in mixture for use in the manufacturing or processing of non-ferrous metals: Banned	REACH Annex XVII		
偶氮著色劑與偶氮染料	Azocolourants and Azodyes	-	-	Textile and leather articles which may come into direct and prolonged contact with the human skin or oral cavity <30ppm Colouring textile and leather articles as a substance or constituent of preparations<1000ppm	REACH Annex XVII		

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二苯醚的八溴代衍生物	Diphenylether, octabromo derivative	-	C ₁₂ H ₂ Br ₈ O	<1000ppm			REACH Annex XVII
(a)壬基酚 (b)壬基酚聚乙氧基醚	(a)Nonylphenol (b)Nonylphenol ethoxylate	-	(a)C ₆ H ₄ (OH) C ₉ H ₁₉ (b)(C ₂ H ₄ O) nC ₁₅ H ₂₄ O	Domestic, industrial and institutional cleaning products, textiles and leather processing, emulsifier in agricultural teat dips, metal working, manufacturing of pulp and paper, cosmetic products, and co-formulants in pesticides and biocides <1000ppm			REACH Annex XVII
壬基酚聚乙氧基醚	Nonylphenol ethoxylate (NPE)	-	(C ₂ H ₄ O)n C ₁₅ H ₂₄ O	Textile article <100ppm			REACH Annex XVII
六價鉻化合物	Chromium VI compounds	-	-	1.Less than 2 mg/kg (0,0002%) soluble chromium VI of the total dryweight of the cement and cement-mixtures (some exemptions apply). 2.Leather articles and leather parts coming into contact with the skin shall not be placed on the market where they contain chromium VI in concentrations equal to or greater than 3 mg/kg (0,0003 % by weight) of the total dry weight of the leather.			REACH Annex XVII
甲苯	Toluene	108-88-3	-	Adhesives or spray paints intended for supply to the general public<1000ppm			REACH Annex XVII
三氯苯	Trichlorobenzene	120-82-1	-	<1000ppm			REACH Annex XVII
多環芳香族化合物 (PAHs) : (a) 苯并[a]芘 (b) 苯并[e]芘 (c) 苯并[a]蒽	Polycyclic-aromatic hydrocarbons (PAH) (a) Benzo[a]pyrene (BaP) (b) Benzo[e]pyrene (BeP) (c)Benzo[a]anthracene(BaA)	(a)50-32-8 (b)192-97-2 (c)56-55-3 (d)218-01-9 (e)205-99-2	-	Extender oil for type production: BaP<1ppm, sum of all listed PAHs<10ppm Rubber or plastic components come into direct as well as prolonged or short-term repetitive contact			REACH Annex XVII

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(d) 屈 (e) 苯并[b]荧蒽 (f) 苯并[j]荧蒽 (g) 苯并[k]荧蒽 (h) 二苯并[a,h]蒽	(d)Chrysen(CHR) (e)Benzo[b]fluoranthene(BbFA) (f)Benzo[j]fluoranthene(BjFA) (g)Benzo[k]fluoranthene(BkFA) (h)Dibenzo[a,h]anthracene(DBAhA)	(f)205-82-3 (g)207-08-9 (h)53-70-3		with the human skin or the oral cavity: any of the listed PAHs<1ppm Toys, including activity toys, and childcare articles if any of their rubber or plastic components that come into direct as well as prolonged or shortterm repetitive contact with the human skin or the oral cavity: any of the listed PAHs<0.5ppm			
鄰苯二甲酸酯類 (a) 鄰苯二甲酸二(2-乙基己基)酯 (b) 鄰苯二甲酸二丁酯 (c) 鄰苯二甲酸甲苯基丁酯	Phthalates (a)bis(2-ethylhexyl)phthalate (DEHP) (b)dibutyl phthalate (DBP) (c)benzyl butyl phthalate (BBP)	(a)117-81-7 (b)84-74-2 (c)85-68-7	-	The plasticised material in toys and childcare articles<1000ppm		REACH Annex XVII	
鄰苯二甲酸酯類 (a) 鄰苯二甲酸二異壬酯 (b) 鄰苯二甲酸二異癸酯 (c) 鄰苯二甲酸二辛酯	Phthalates (a)di-"isononyl"phthalate (DINP) (b)di-"isodecyl" phthalate (DIDP) (c)di-n-octyl phthalate (DNOP)	(a) 28553-12-0; 68515-48-0 (b) 26761-40-0; 68515-49-1 (c) 117-84-0	-	The plasticised material, in toys and childcare articles which can be placed in the mouth by children<1000ppm		REACH Annex XVII	
二乙二醇单甲醚	2-(2-methoxyethoxy)ethanol (DEGME)	111-77-3	-	Constituent of paints, paint strippers, cleaning agents, self-shining emulsions or floor sealants <1000ppm		REACH Annex XVII	
二甘醇一丁醚	2-(2-butoxyethoxy)ethanol (DEGBE)	112-34-5	-	Spray paints or spray cleaners in aerosol dispensers <3%(w/w)		REACH Annex XVII	
二苯基甲烷二異氰酸酯 包含以下特定同分異構物 (a)4,4'-Methylenediphenyl diisocyanate	Methylenediphenyl diisocyanate (MDI) including the following specific isomers: (a)4,4'-Methylenediphenyl diisocyanate	26447-40-5 (a) 101-68-8 (b) 5873-54-1 (c) 2536-05-2	-	<1000ppm (Exemption: hot melt adhesives)		REACH Annex XVII	

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(b)2,4 Methylenediphenyl diisocyanate (c)2,2 Methylenediphenyl diisocyanate:	(b)2,4' -Methylenediphenyl diisocyanate (c)2,2' - Methylenediphenyl diisocyanate						
環己烷	Cyclohexane	110-82-7	-	neoprene-based contact adhesives supplied to the general public in package sizes greater than 350 g<0.1%	REACH Annex XVII		
硝酸氨	Ammonium nitrate, AN	6484-52-2	-	Nitrogen in relation to ammonium nitrate for use as a solid fertilizer<28% Other mixture except certain uses<16%	REACH Annex XVII		
二氯甲烷	Dichloromethane	75-09-2	-	Paint strippers<1000ppm	REACH Annex XVII		
丙烯醯胺	Acrylamide	79-06-1	-	Grouting applications<1000ppm	REACH Annex XVII		
富馬酸二甲酯	Dimethylfumarate (DMFu)	624-49-7	-	<0.1ppm	REACH Annex XVII		
(a) 醋酸苯汞 (b) 丙酸苯汞 (c) 異辛酸苯汞 (d) 辛酸苯汞 (e) 新癸酸苯汞	(a) Phenylmercury acetate (b) Phenylmercury propionate (c) Phenylmercury 2-ethylhexanoate (d) Phenylmercury octanoate (e) Phenylmercury neodecanoate	(a)62-38-4 (b)103-27-5 (c)13302-00-6 (d) 13864-38-5 (e)26545-49-3	-	Mercury in mixture<0.01%	REACH Annex XVII		
鉛及鉛化合物	Lead and its compounds	7439-92-1	-	lead in any individual part of jewellery articles<0.05% lead in articles supplied to the general public if those articles or accessible parts thereof may,	REACH Annex XVII		

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				during normal or reasonably foreseeable conditions of use, be placed in the mouth by children<0.05%	
1,4-二氯苯	1,4-dichlorobenzene	106-46-7	-	Air freshener or deodoriser<1000ppm	REACH Annex XVII
無機鉍鹽	Inorganic ammonium salts	-	-	Banned in cellulose insulation mixtures or cellulose insulation articles after 14 July 2018 unless the emission of ammonia from those mixtures or articles results in a concentration of less than 3 ppm by volume (2,12 mg/m3) under specified test conditions	REACH Annex XVII
雙酚 A	Bisphenol A	80-05-7	-	Thermal paper <200ppm	REACH Annex XVII
十溴聯苯醚	Bis(pentabromophenyl)ether (decabromodiphenyl ether; decaBDE)	1163-19-5	-	Substance: Banned. Article or its part<0.1% Exemptions: spare parts of aircraft, vehicles or machines, electrical and electronic equipment	REACH Annex XVII
全氟辛酸 (PFOA)	Perfluorooctanoic acid (PFOA) and its salts	335-67-1	-	Banned as a substance from 4 July 2020. Less than 25 ppb of PFOA including its salts or 1 000 ppb of one or a combination of PFOA-related substances in mixture and article. Certain applications are exempt.	REACH Annex XVII
甲醇	Methanol	67-56-1	-	Windscreen washing or defrosting fluids< 0.6%	REACH Annex XVII
八甲基環四矽氧烷 十甲基環五矽氧烷	Octamethylcyclotetrasiloxane (D4) Decamethylcyclopentasiloxane (D5)	556-67-2 541-02-6	-	Wash-off cosmetics<0.1%	REACH Annex XVII

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N-甲基吡咯烷酮 (NMP)	1-methyl-2-pyrrolidone(NMP)	872-50-4	-	Shall not be placed on the market as a substance on its own or in mixtures in a concentration equal to or greater than 0.3 % after 9 May 2020.	REACH Annex XVII
紡織品和鞋類中的 CMR 物質	CMR substances in textiles and footwear (link)	-	-	Various restriction limits	REACH Annex XVII

2.1.5 EU 2006/122/EC PFOS, implemented in June 2008

物質名稱	Substance name	CAS No.	Molecular formula	Restricted content	Remarks
全氟辛烷磺酸	PFOS	1763-23-1	C ₈ HF ₁₇ O ₃ S	Substance or preparation <50ppm	2006/122/EC
				Article <1000ppm	
				Textiles or paints <1µg/m ²	

2.1.6 EU Packaging Materials Directive 2013/2/EU, implemented in September 2013

物質名稱	Substance name	CAS No.	Molecular formula	Restricted content	Remarks
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鉛+汞+鎘+鉻 (VI)	Pb +Hg +Cd +Cr(VI)	-	-	Pb +Hg +Cd +Cr(VI) <100ppm			EU Packaging Materials (2013/2/EU)

2.1.7 EU Battery Directive 2013/56/EU, implemented in July 2015

物質名稱	Substance name	CAS No.	Molecular formula	Restricted content	Remarks
汞	Hg	-	-	Battery <5ppm	EU Battery (2013/56/EU)
鎘	Cd	-	-	Battery<20ppm	EU Battery (2013/56/EU)

2.1.8 EU Organostannic Compound Directive 2009/425/EC

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物質名稱	Substance name	CAS No.	Molecular formula	Restricted content	Remarks
三代有機錫化合物	Tri-substituted Organostannic Compounds (e.g. tributyltin (TBT) and triphenyltin (TPT) compounds)	-	-	<1000ppm	2009/425/EC

2.2 China

2.2.1 China 《Requirements of concentration limits for certain restricted substances in electrical and electronic products》

GB/T 26572-2011, implemented in August 2011.

物質名稱	Substance name	CAS No.	Molecular formula	Restricted content	Remarks
汞	Mercury(Hg) and its compounds	-	-	<1000ppm	-

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鉛	Lead(Pb) and its compounds	-	-	<1000ppm	-
鎘	Cadmium(Cd) and its compounds	-	-	<100ppm	-
六價鉻	Hexavalent chromium(Cr 6+) and its compounds	-	-	<1000ppm	-
多溴聯苯	Polybrominated Biphenyls (PBB)	-	-	<1000ppm	-
多溴聯苯醚	Polybrominated Diphenyl Ethers (PBDE)	-	-	<1000ppm	-

2.2.2 China 《Marking for the restriction of the use of hazardous substances in electrical and electronic product》

SJ/T11364-2014, implemented in July 2016.

Marking name	Marking
Contains no harmful substances	

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Contains harmful substances	
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2.3 Taiwan

2.3.1 Taiwan 《Poison Management》

物質名稱	Substance name	CAS No.	Molecular formula	Restricted content	Remarks
多氯聯苯	2,2',3,4,4',5,6-HEPTACHLOROBIPHENYL	74472-47-2	C ₁₂ H ₃ Cl ₇	Banned	-
可氯丹	Chlorindan	57-74-9	C ₁₀ H ₆ Cl ₈	Banned	-
石棉	Asbestos	1332-21-4	5.5FeO,1.5MgO,8SiO ₂ ,H ₂ O	Banned	-
地特靈	Dieldrin	60-57-1	C ₁₂ H ₈ Cl ₆ O	Banned	-
滴滴涕	4,4-Dichlorodiphenyl-trichloroethane(DDT)	50-29-3	C ₁₄ H ₉ Cl ₅	Banned	-
毒殺芬	TOXAPHENE	8001-35-2	C ₁₀ H ₁₀ Cl ₈	Banned	-
五氯酚鈉	Sodium pentachlorophenate	131-52-2	C ₆ Cl ₅ NaO	Banned	-
甲基汞	Methyl mercury	22967-92-6	CH ₃ Hg	Banned	-

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安特靈	Endrin	60-57-1	C ₁₂ H ₈ Cl ₆ O	Banned	-		
飛布達	Heptachlor	76-44-8	C ₁₀ H ₅ Cl ₇	Banned	-		
蟲必死	Hexachlorocyclohexane	319-84-6 319-85-7 319-86-8 6108-10-7	C ₆ H ₆ Cl ₆	Banned	-		
阿特靈	Aldrin	309-00-2	C ₁₂ H ₈ Cl ₆	Banned	-		
二溴氯丙烷	1,2-Dibromo-3-chloropropane(DBCP)	96-12-8	CH ₂ BrCHBr - CH ₂ Cl	Banned	-		
福賜松	Leptophos	21609-90-5	C ₆ H ₅ PS(OCH ₃) OC ₆ H ₂ BrCl ₂	Banned	-		
克氯苯	Chlorobenzilate	510-15-6	C ₁₆ H ₁₄ Cl ₂ O ₃	Banned	-		
護穀	Nitrofen	836-75-5	C ₁₂ H ₇ Cl ₂ NO ₃	Banned	-		
靈丹	Lindane (g-BHC, or g-HCH)	58-89-9	C ₆ H ₆ Cl ₆	Banned	-		
五氯硝苯	Pentachloronitrobenzene	82-68-8	C ₆ Cl ₅ NO ₂	Banned	-		
亞拉生長素	Daminozide	1596-84-5	(CH ₃) ₂ NNHCO CH ₂ CH ₂ COOH	Banned	-		
氟乃淨	Cyanazine	21725-46-2	C ₉ H ₁₃ CIN ₆	Banned	-		
樂乃松	Fenchlorphos	299-84-3	C ₈ H ₈ Cl ₃ O ₃ PS	Banned	-		
四氯丹	Captafol	2425-6-1	C ₁₀ H ₉ Cl ₄ NO ₂ S	Banned	-		
蓋普丹	Captan	133-06-2	C ₉ H ₈ Cl ₃ NO ₂ S	Banned	-		
福爾培	Folpet	133-07-3	C ₉ H ₄ Cl ₃ NO ₂ S	Banned	-		
錫 丹	Cyhexatin	13121-70-5	(C ₆ H ₁₁) ₃ SnOH	Banned	-		
溴苯乙腈	a-Bromobenzyl cyanide	5798-79-8	C ₆ H ₅ CHBrCN	Banned	-		
二氯甲醚	Bis-Chloromethyl ether	542-88-1	(CH ₂ Cl) ₂ O	Banned	-		

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對-胺基聯苯鹽酸鹽	P-Aminobiphenyl Hydrochloride	2113-61-3	$C_6H_5C_6H_4NH_2 \cdot HCl$	Banned	-		
2- 胺醋酸鹽	2-Naphthylamine acetate	553-00-4	$C_{10}H_7NH_2 \cdot CH_3COOH$	Banned	-		
2- 胺鹽酸鹽	2-Naphthylamine Hydrochloride	612-52-2	$C_{10}H_7NH_2 \cdot HCl$	Banned	-		
聯苯胺醋酸鹽	Benzidine acetate	36341-27-2	$(NH_2C_6H_4)_2 \cdot CH_3COOH$	Banned	-		
聯苯胺硫酸鹽	Benzidine sulfate	531-86-2	$(NH_2C_6H_4)_2 \cdot H_2SO_4$	Banned	-		
聯苯胺二鹽酸鹽	Benzidine dihydrochloride	531-85-1	$(NH_2C_6H_4)_2 \cdot 2HCl$	Banned	-		
聯苯胺二氫氟酸鹽	Benzidine dihydrofluoride	41766-73-8	$(NH_2C_6H_4)_2 \cdot 2HF$	Banned	-		
聯苯胺過氯酸鹽(一)	Benzidine perchlorate	29806-76-6	$(NH_2C_6H_4)_2 \cdot HClO_4$	Banned	-		
聯苯胺過氯酸鹽(二)	Benzidine perchlorate	38668-12-1	$(NH_2C_6H_4)_2 \cdot xHClO_4$	Banned	-		
聯苯胺二過氯酸鹽	Benzidine diperchlorate	41195-21-5	$(NH_2C_6H_4)_2 \cdot 2HClO_4$	Banned	-		
硫化鎘	Cadmiumsulfide	1306-23-6	CdS	Banned	-		
光氣	Phosgene	75-44-5	$COCl_2$	Banned	-		
重鉻酸鈉	Sodiumdichromate,dihydrate	7789-12-0 10588-01-9	$Na_2Cr_2O_7 \cdot 2H_2ONa_2Cr_2O_7$	Banned	-		
2,4,5-三氯酚	2,4,5-Trichlorophenol	95-95-4	$C_6H_3Cl_3O$	Banned	-		
氯甲基甲基醚	Chloromethyl methyl ether	107-30-2	CH_2ClOCH_3	Banned	-		
六氯苯	Hexachlorobenzene	118-74-1	C_6Cl_6	Banned	-		

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次硫化鎳	Trinickeldisulfide	12035-72-2	Ni ₃ S ₂	Banned	-
四氯乙烯	Tetrachloroethylene	127-18-4	CCl ₂ CCl ₂	Banned	-
三氯乙烯	Trichloroethylene	79-01-6	C ₂ HCl ₃	Banned	-
氰化氫	Hydrogencyanide	74-90-8	HCN	Banned	-
三氯化磷	Phosphorus trichloride	7719-12-2	PCl ₃	Banned	-
五氯苯酚及其鹽和酯類	Pentachlorophenol (PCP) and its salts and esters	87-86-5	-	Banned	-

2.4 Others

2.4.1 Montreal Protocol on Substances that Deplete the Ozone Layer

物質名稱	Substance name	CAS No.	Molecular formula	Restricted content	Remarks
破壞臭氧層物質	Ozone Depleting Substances	-	-	Banned	Montreal Protocol

2.4.2 Other hazardous substances

物質名稱	Substance name	CAS No.	Molecular formula	Restricted content	Remarks
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致癌物質	Carcinogenic substances	-	-	Inclusion plastic material which is not less than 25 grams in the outer box and outer casing: Banned	the same as Group 1 and Group 2A substances assessed with the IARC organization
2,4,6-三叔丁基苯酚	2,4,6-Trit-butylphenol	732-26-3	C18H30O	Banned	-
氯丹類	chlordanes	-	-	Banned	-
餾分油(煤焦油),重油	Distillates (coal tar), heavy oils	90640-86-1	-	<1000ppm	-
氯代烴類(二氯乙烯·五氯乙烷·四氯乙烷·四氯乙烯·三氯甲烷·三氯乙烷·三氯乙烯)	chlorinated hydrocarbons	-	-	other material <1000ppm	-
				Cleaners and adhesives: Banned	
餾分油 (煤焦油) · 重油 · 萘餾分	Distillates (coal tar), heavy oils, pyrene fraction	91995-42-5	-	<1000ppm	-
餾分油 (煤焦油) · 瀝青 · 萘餾分	Distillates (coal tar), pitch, pyrene fraction	91995-52-7	-	Wood: Banned	-
殘留物 (煤焦油) · 瀝青蒸餾	residues (coal tar), pitch distn	92061-94-4	-	<1000ppm	-
木溜油 · 煤焦油 · 焦油 · 蒽類物質	Creosote, coal tar, tar oils, anthracene substances	8001-58-9; 65996-91-0; 122384-78-5; 90640-80-5	-	Treatment of wood: Banned	-
二辛基錫類化合物 (氧化二辛基錫 · 二月桂酸二正辛基錫 · 其他)	Dioctyltin (DOT) compounds	870-08-6; 3648-18-8; -	-	Textiles and leather: <1000ppm	-

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二丁基錫類化合物	Dibutyltin(DBT) compounds	-	-	<1000ppm	-
二惡英	Dioxins	-	-	Banned	-
DBB	1,3,2,4-Dioxastannaboretane,2,2-dibutyl-4-hydroxy-	75113-37-0	-	<1000ppm	-
異狄氏劑	Endrin	72-20-8	C12H8Cl6O -	Banned	-
發泡聚苯乙烯	Expanded polystyrene (EPS)	-	-	Packaging materials for South Korean products:: Banned	-
氟代溫室氣體	Fluorinated Greenhouse Gases	-	-	Banned	-
甲醛	Formaldehyde	50-00-0	-	Textile< 75ppm	-
開樂散 (三氯殺蟎醇)	Kelthane	115-32-2	-	Banned	-
六氯丁二烯	Hexachlorobutadiene	87-68-3	-	Banned	-
有機錫化合物	Organic Tin compounds	1461-23-0; 56-35-9; 56-35-0; 3090-36-6; 1983-10-4; 668-34-8; 639-58-7; 76-87-9; 900-95-8;	-	Banned	-
滅蟻靈	Mirex	2385-85-5	-	Banned	-

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多氯聯苯 (PCBs)	Polychlorinated Biphenyls(PCBs)	1336-36-3	-	Banned	-
多氯聯苯類 (PCDDs)	Polychlorinated dibenzodioxins (PCDDs)	1746-01-6	-	Banned	-
多氯二苯並呋喃 (PCDFs)	Polychlorinated dibenzofuran (PCDFs)	136677-10-6	-	Banned	-
多氯化萘	Polychlorinated Naphthalenes(PCNs)	-	-	Banned	-
紅(黃)磷	Phosphorus	7723-14-0	p	Plastic flame retardant: Banned	-
鹵素芳香族化合物 (多氯聯苯・鹵代苯)	Halogenated Aromatic Substances(HAS)	-	-	Capacitors and transformers : Monohalogenated aromatic compound <500ppm; Polyhalogenated aromatic compound <50ppm	-
五氯苯	Pentachlorobenzene(PeCB)	608-93-5	-	Banned	-
十氯酮	Chlordecone	143-50-0	-	Banned	-
對苯二胺類物質	N,N'-dixylyl-p-phenylene diamin,N-tolyl-N'-xylyl-p-phenylenediamine or N,N'-dixylyl-p-phenylene diamine	27417-40-9; 28726-30-9; 70290-05-0	-	Banned	-
三氯乙烷	Methyl chloroform	74552-83-3		Banned	-
磷酸三甲苯酯	Tri-o-cresyl phosphate or Tricresyl phosphate (TCP)	1330-78-5	C21H21O4P	Banned	-

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烷基酚類	Alkylphenol	-	-	<1000ppm	-
放射性物質(放射性同位素)	Radioactive Substances(Radioactive Isotope)	-	-	Banned	-
三氧化二銻	Antimony trioxide	1309-64-4	Sb2O3	<1000ppm	-
2-(2'-羥基-3',5'-二叔丁基苯基)-苯並三唑	Phenol,2-(2H-benzotriazol-2-yl)-4,6-bis(1,1-dimethylethyl)	3846-71-7	C20H25N3O	Banned	Japan CSCL
高氯酸鹽	Perchlorates	-	-	In the parts: <0.006ppm	-
溴系阻燃劑	Brominated Flame Retardants(other than Polybrominated Biphenyls (PBBs), Polybrominated Diphenyl Ethers (PBDEs) or (HBCDD)	-	-	For halogen free product < 900ppm (The sum of bromine (Br) and chlorine (Cl) concentrations <1500ppm)	IEC61249-2-21
				Plastic materials except printed wiring board laminates <1000ppm	JEDEC/ECA JS-709A
氯系阻燃劑	Chlorinated Flame Retardants	-	-	For halogen free product < 900ppm (The sum of bromine (Br) and chlorine (Cl) concentrations <1500ppm)	IEC61249-2-21
				Plastic materials except printed wiring board laminates	JEDEC/ECA JS-709A

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				<1000ppm	
鈹及其鈹化合物	Beryllium and its compounds	-	-	Banned	Customer required
聚氯乙烯	Polyvinyl Chloride(PVC)	9002-86-2	(C ₂ H ₃ Cl) _n	plastic material<1000ppm Intentionally added	JS709 Customer required
六溴環十二烷	Hexabromocyclododecane (HBCDD)	25637-99-4 (134237-50-6/134237-51-7/134237-52-8)		<100ppm	(EU) 2016/293 (POPs)
鉛及鉛化合物	Lead and its compounds	7439-92-1		Consumer products designed or intended primarily for children 12years of age or younger <100ppm	U.S. Consumer Product Safety Improvement Act as modified by 76 FR 44463
				Paint and similar surface coatings of toys and other articles intended for use by children <90ppm	U.S. Consumer Product Safety Improvement Act
				Batteries <40ppm	2006/66/EC EU Battery Directive; Chinese Standard GB 24427-2009
汞及汞化合物	Mercury and its compounds	7439-97-6		Batteries	Taiwan Restrictions on the Manufacture, Import, and

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				Intentionally added or <1ppm	Sale of Dry Cell Batteries; Chinese Standard GB 24427-2009 "Limitation of mercury, cadmium and lead contents for alkaline and non-alkaline zinc manganese dioxide batteries" ; Korea: Law on quality management and control of safety of industrial products Battery regulation; 2006/66/EC EU Battery Directive; New York Env Law § 27-0719 Battery Management and Disposal	
				Batteries total Hg in homogenous material <5ppm	Canadian Products Containing Mercury Regulations (SOR/2014-254)	
全氟辛酸 (PFOA) 及其鹽類脂類	Perfluorooctanoic acid (PFOA) and individual salts and esters			Textiles, photographic coatings applied to films, paper or printing plates and other coated consumer products. <1ug/m2	Norwegian products regulation Section 2-32	
二苯胺與苯乙烯和 2,4,4-三甲基戊烯的反應產物	Benzenamine, N- phenyl-, reaction products with styrene and 2,4,4- trimethylpentene	68921-45-9	272-940-1	Intentionally added	Prohibition of Certain Toxic Substances Regulations,	

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						2012, CANADA	

2.5 Proposition 65 : 「 the Safe Drinking Water and Toxic Enforcement Act 」 . From 1986/11 ◦

About the latest Proposition 65 lists, please refer to following Proposition 65 website

Proposition 65 website : <https://oehha.ca.gov/proposition-65/proposition-65-list>

3 Banned substances (Customer policy)

Group	Substance	CAS No	Banned usage	Legislation
	2-benzotriazole-2-yl,4,6-ditert-butyl-phenol	3846-71-7	All application	REACH: Candidate list
	4,4'-diaminodiphenylmethane (MDA)	101-77-9	All application	REACH: Candidate list
Arsenic compounds *1		Several	In wood preservation substances	REACH: Annex XVII
Asbestos		Several	All application	REACH: Annex XVII
Azocolourants		Several	All application	REACH: Annex XVII
Benzidine and its salts, 4-		Several	All application	REACH: Annex XVII

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aminobiphenyl and its salts, thiocarbamide,2- Naphthylamine and its salts				
	Benzyl butyl phthalate (BBP)	85-68-7 201-622-7 (EC)	All application	REACH: Annex XVII
	Bis (2-ethylhexyl) phthalate (DEHP)	117-81-7 204-211-0 (EC)	All application	REACH: Annex XVII
	Beryllium Oxide	1304-56-9	All application	
Cadmium and cadmium compounds		Several	All applications except of batteries for special applications *3	REACH: Annex XVII
Chromium(VI) compounds	Chromium(VI) compounds: lead chromate in general, and chromium(VI) compounds in pigments	Several	All applications	REACH: Annex XVII
	Cobalt dichloride	7646-79-9	All applications	REACH: Candidate list
	Dimethylfumarate (DMFu)	624-49-7	All applications	REACH: Annex XVII
	Formaldehyde	50-00-0	Preservative in wood *4	CoRAP + EC list no: 200-001-8
Lead/Lead compounds		Several	All applications except for lead acid batteries and lead sheeted cable maintenance	REACH: Annex XVII
CFCs– Chlorofluorocarbons		Several	All applications	The Montreal Protocol and

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				EC/1005/2009
Halons		Several	All applications	The Montreal Protocol and EC/1005/2009
HCFCs – Hydrochlorofluorocarbons		Several	All applications	The Montreal Protocol and EC/1005/2009
	Bromochloromethane	74-97-5	All applications	The Montreal Protocol and EC/1005/2009
	Carbon tetrachloride	56-23-5	All applications	The Montreal Protocol and EC/1005/2009
	Methyl bromide	74-83-9	All applications	The Montreal Protocol and EC/1005/2009
	Methylene chloride	75-09-2	All applications	REACH: Annex XVII
	n-bromopropane	106-94-5	All applications	The Montreal Protocol and EC/1005/2009
	1,1,1-trichloroethane	71-55-6	All applications	The Montreal Protocol and EC/1005/2009
	1,2,4-Trichlorobenzene (TBC)	120-82-1	All applications	The Montreal Protocol and EC/1005/2009

Notes

- * 1 Arsenic and arsenic compounds on trace element level is acceptable.

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- * 2 EU Directive 2002/61/EC
- * 3 Exception: Nickel-cadmium batteries in stationary applications where other types of batteries is not suitable due to extreme temperatures or charging procedures.
- * 4 Formaldehyde level <0.124 mg/m³ air (E1-norm according to test method EN 717-1) or <3.5 mg/m³ air (test method EN717-2).