

健鼎列管有害物質清單

1.產品禁用物質：計103項。Restricted substances in products : Totaled 103 items.

有害物質名稱 Hazardous Substances		允許濃度 Acceptable Concentration (ppm)	參考 Reference
鎘(Cd)及其化合物 Cadmium and its compounds		ND	2011/65/EU;Korea RoHS ;China RoHS;Japan J-MOSS;GB/T 26572;Taiwan BSMI RoHS
汞(Hg)及其化合物 Mercury and its compounds		N.I.A;ND	
六價鉻(Cr6+) 及其化合物 Hexavalent chromium and its compounds		ND	
多溴聯苯(PBBs) Polybrominated biphenyls		ND	
多溴聯苯醚(PBDE) Polybrominated biphenyl ethers		ND	
鄰苯二甲酸(2-乙基己基酯) (DEHP) Bis(2-ethylhexyl) phthalate		ND	
鄰苯二甲酸丁苄酯 (BBP) Butyl benzyl phthalate		ND	
鄰苯二甲酸二丁酯 (DBP) Dibutyl phthalate		ND	
鄰苯二甲酸二異丁酯 (DIBP) Diisobutyl phthalate		ND	
全氟辛烷硫磺酸 Perfluorooctane sulfonates(PFOS)		ND	2019/1021/EU
全氟辛酸及其鹽類與酯類 Perfluorooctyl acid and individual salts and esters of PFOA		ND	Norway FOR-2004-06-01-922;2019/1021/EU
聚氯乙烯(PVC)及其混合物 Polyvinyl chloride and its mixtures		N.I.A; Negative	JIG-101
四溴雙酚-A Tetrabromobisphenol-A	除以下其它所有物料 All materials except below list	ND	EU WEEE 2002/96/EC;OSPAR
	有鹵素PP膠片 Non-Halogen free Prepreg	R	
四溴雙酚-A-雙-(2,3-二溴丙醚)TBBP-A-bis		ND	--
六溴環十二烷(SVHC)		N.I.A; ND	REACH 1907/2006 and amendment
Hexabromocyclododecane (HBCD/HBCDD)			2019/1021/EU
多環芳烴Polynuclear Aromatic Hydrocarbons(PAHs)		ND	EC/1272/2013
鹵化萘 Halogenated naphthalenes		ND	--
特定鹵化聯苯醚物質 Specific Halogenated Diphenyl Methanes		ND	REACH 1907/2006 and amendment
多氯聯苯 Poly chlorinated biphenyls (PCB)		ND	2019/1021/EU ;85/467/EEC;CRS 001/1983, Brazil
多氯化萘 Polychlorinated naphthalenes (PCN)		ND	--
聚氯三聯苯 Polychlorinated terphenyls (PCT)		ND	85/467/EEC;REACH 1907/2006
中鏈氯化烷烴/長鏈氯化烷烴 Medium/Long Chain Chlorinated Paraffins (MCCP/LCCP)		ND	--
多氯酚Pentachlorophenol (PCP)		ND	76/769/EEC;OSPAR;Norway’ s PoHS
持久性有機污染物 Persistent Organic Pollutants(POPs)		ND	OSPAR;Germany:ChemVerbotsV
有機錫化合物Organic tin compounds		ND	REACH 1907/2006 and amendment
			Japan. Law Concerning the Examination and Regulation of Manufacture, etc.of Chemical Substances.
二丁基錫化合物(DBT)		ND	SS-00259
二辛基錫化合物(DOT)		ND	
石棉 Asbestos		Negative	Japan. Industrial Safety and Health Law.
			Germany. Chemicals Prohibition Ordinance.
			Germany:ChemVerbotsV
特定偶氮化合物 Azo Compounds ;偶氮化合物所生成的特定胺類化合物(偶氮染料、芳基胺、苯胺)		ND	REACH 1907/2006 and amendment
鈹Berryllium and its compounds		N.I.A;ND	97/10/EC;JIG-101;IEEE 1680.1-2018標準4.1.4.1
氧化鈹Beryllium Oxide		ND	JIG-101

有害物質名稱 Hazardous Substances		允許濃度 Acceptable Concentration (ppm)	參考 Reference
鉍青銅Beryllium copper		ND	SS-00259
臭氧危害物質 (Ozone depleting substances)ODS	可能含ODS 的風險物料：清洗劑、發泡劑	ND	(EC) No.2037/2000
	Risk materials that may contain ODS: cleaning agents, foaming agents		Japan. Law Concerning the Protection of the Ozone of Specified Substances and Other Measures.
脂肪族氯碳氫化合物Aliphatic CHCs		ND	EU Directive 94/60/EEC
氯化消毒藥水Chlorinated Hydrocarbons (CHCs);有機氯化化合物		ND	EU Directive 94/60/EEC
放射性物質 Radioactive Substances		ND	JIG-101;Japan:Nuclear material reactors,JGPSSI
紫外線吸收劑(特定苯並三氮唑) 2-(3,5-Di-Tert-Butyl-2-Hydroxyphenyl)Specific Benzotriazole 2-(2H-苯駢三唑-2-基)-4,6-二(1,1-二甲基乙基)苯酚 Phenol,2-(2H-benzotriazol-2-yl)-4,6-bis(1,1-dimethylethyl)		ND	Japan. Law Concerning the Examination and Regulation of Manufacture, etc.of Chemical Substances.
麥角二乙胺(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)			REACH Annex XVII;REACH SVHC XII
紅磷Red Phosphorus		ND	Japan: Industrial Safety and Health Law
黃磷Yellow Phosphorus		ND	
有機磷化合物Organic Phosphorus Compounds		N.I.A;ND	SS-00259;TSCA 第6(h)節
特定鄰苯二甲酸酯類Specific Phthalates		ND	California Proposition 65;REACH 1907/2006 and amendments;2011/65/EU
聚溴二苯基氧化物Polybrominated diphenyl oxide(PBDO);聚溴聯苯氧化物Polybrominated biphenyl oxide(PBBO)		ND	--
介面活性劑 DTDMAC		ND	Norway’ s PoHS
4-硝基二苯胺極其鹽類4-Nitrobiphenyl and its salt		ND	Japan: Industrial Safety and Health Law
鎂元素 Gallium , elemental only		ND	--
三-(1-丫丙啶基)氧化磷(TEPA) Tris-(1-aziridinyl) phosphin oxide		ND	--
六氯丁二烯Hexachlorobutadiene		ND	Japan. Law Concerning the Examination and Regulation of Manufacture, etc.of Chemical Substances;TSCA
氯乙烯單體 Vinyl chloride(monomer)		ND	--
乙二醇甲醚及其醋酸酯Ethylene glycol monomethyl ether and acetate		ND	76/769/EEC
乙二醇乙醚及其醋酸酯Ethylene glycol monoethyl ether and acetate		ND	--
致癌性物質 Materials that may cause Cancer		ND	--
六氯環己烷(HCH)Hexachlorocyclohexaneisomers		ND	OSPAR
酚及酚化合物Phenol and Phenolic compounds		ND	--
烷基酚alkylphenols		ND	OSPAR;2003/53/EC
氯酚Chlorophenols		ND	--
辛基苯酚Octylphenol		ND	--
壬基酚與壬基酚聚氧乙烯醚及相關物質Nonylphenol/ethoxylates(NP/NPEs) and related substances		ND	OSPAR;2003/53/EC
2,4,6-第三丁基苯酚2,4,6-Tertiarybutylphenol		ND	Japan. Law Concerning the Examination and Regulation of Manufacture, etc.of Chemical Substances.
苯二胺類化合物 N-p-phenylenediamine詳見附表1-10		ND	Japan. Law Concerning the Examination and Regulation of Manufacture, etc.of Chemical Substances.
三氯沙Triclosan(Cas No.3380-34-5)		ND	Norway’ s PoHS
富馬酸二甲酯(DMF) dimethylfumarate		ND	(EU) No 412/2012;2010/153/EC
六氯乙烷 Hexachloroethane		ND	--
特定氯化烴物質 Specific Chlorinated Hydrocarbons		ND	--
鹵化苯化合物(氯苯和溴苯)		ND	--

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鹵化雙環烷類	ND	--
過氯酸鹽Perchlorates	ND	CA DTSC;過氯酸鹽污染防範法案
4,4’ -亞甲雙(2-氯苯胺)4,4’ -Methylenebis(2-chloroaniline)	ND	--
硫化氫Hydrogen sulfide	ND	--
六氟化硫SF6 Sulfur Hexafluoride	ND	--
PFASs全氟和多氟烷酸類化合物	N.I.A;ND	美國TPCH;REACH
酮麝香ketone musk/所有合成麝香All synthetic musks 1-(4-tert-butyl-2,6-dimethyl-3,5-dinitrophenyl)ethanone	ND	Norway PoHS
氰化物Cyanide(氰化金鉀除外) Exception for Potassium gold cyanide	ND	Water Pollution Control Law
烷基汞化合物 (烷基以甲基或乙基為限) Alkyl mercury compound	ND	Water Pollution Control Law
衝突礦產Conflict Metals: 金(Au)、鉭(Ta)、鎢(W)、錫(Sn)、鈷(Co)	Banned	Policy Of Conflict Free Materials
正己烷n-hexane	ND	--
環己烷Cyclohexane	ND	--
N-(2,4-二甲苯基)-N'-甲基甲醚鹽酸鹽 Amitraz metabolite Hydrochloride	ND	--
二鄰甲苯胍	ND	--
鹵化甲基聯苯Halogenated Diphenyl Methans	ND	--
全氟辛烷磺醯氟(PFOSF)	ND	客戶要求
硫丹 Endosulfan	ND	(EU) No 519/2012
特定碳酸鉛類 Specific lead carbons	ND	--
特定硫酸鉛類 Specific lead sulphates	ND	--
三氟化氮 Nitrogen trifluoride	ND	Switzerland Ordinance
二乙二醇單甲醚 2-(2-methoxyethoxy)ethanol(DEGME)	ND	REACH 1907/2006 and amendment
甲基苯酚化合物 Methyl-phenol compounds	ND	Canadian Environmental Protection Act · 1999
2-[(2-胺基乙基)胺基]乙醇 Ethanol,2-[(2-aminoethyl)aminol]	ND	Canadian Environmental Protection Act · 1999
苯乙烯化二苯胺 Diphenylamine, Substituted (SDPA)	ND	Canadian Environmental Protection Act · 1999
2,4,6-三溴苯丙烯2,4,6-Tribromophenyl acrylate	ND	--
丙烯腈Acrylonitrile	ND	--
抗菌,抗微生物劑 Antimicrobial & Biocidal	Banned	--
乙基/甲基乙二醇及其醋酸鹽/2-乙氧基醋酸鹽Ethyl/Methyl-Glycols and their Acetates/2-ethoxy acetate	Banned	--
麥角乙二胺d-lysergic acid diethylamide	ND	R015-0E
苯酚和酚化合物Phenol and phenolic compounds	ND	I039-0E
偏苯三酸三辛酯 TOTM	ND	---
五氯苯硫酚 (PCTP)	ND	I056-0C,TSCA
4-(1-氧代-2-丙烯基)嗎啡啉4-(1-oxo-2-propenyl)-Morpholine acryloyl morpholine	ND	BOE-0K
2-萘胺及其鹽類 2-Naphthylamine and its salts	ND	L126-AA(D089,G088)
長鏈全氟羧酸及其鹽和相關物質PFCAs(C9-C20)	ND	2021/129/EU;K075-0B
全氟己烷磺酸及其鹽和相關物質 PFHxS its salts and related substances	ND	客戶要求
十一氟己烷磺酸及其鹽和相關物質 PFHxA its salts and related substances	ND	客戶要求
顏料紫29 3,4,9,10-Perylenetetracarboxylic dimide	ND	TSCA
Decabromo-diphenyl-ethane (DBDPE)	ND	Q007&Q008&Q017&Q107&T055&T123 -0H

2.產品限制物質：計29項。Controlled substances in products：Total 29 items.

有害物質名稱 Hazardous Substances		允許濃度 Acceptable Concentration (ppm)	參考 Reference
鉛(Pb)及其化合物	除下述應用之其它所有用途 All application except below uses	N.I.A;50	2011/65/EU;Korea RoHS ;China RoHS;Japan J-MOSS;GB/T 26572;Taiwan BSMI RoHS
	錫鉛焊料 lead free Solder	500	
總溴 Bromine (PBBs,PBDEs・TBBPA,HBCDD中的溴除外)	無鹵素材料 Halogen free materials	800	IEC 61249-2-21;JPCA-ES01 2003;IPC 4101;UL 110標準 9.2.3,12.7.1;IEEE 1680.1-2018標準4.1.5.1及4.1.5.2
Exemption for application of Bromine in PBBs, PBDEs,TBBPA,HBCDD)	除以上其它所有用途All applications except above list	R	
總氯 Chlorine	無鹵素材料 Halogen free materials	800	
	除以上其它所有用途 All applications except above list	R	
總溴+總氯Bromine+Chlorine (PBBs,PBDEs,TBBPA,HBCDD中的溴除外)	無鹵素材料 Halogen free materials	1500	
(Exemption for application of Bromine in PBBs, PBDEs,TBBPA,HBCDD)	除以上其它所有用途 All applications except above list	R	
砷以及其化合物	除以下其它所有用途All applications except below list	N.I.A;ND	REACH 1907/2006 and amendment;JIG-101
Arsenic and its compound	銅箔,基板,膠片Copper foil, CCL and PP	N.I.A;50	
銻以及其化合物Antimony and its compound	除以下其它所有用途 All applications except below list	200	A005-0H
	三氧化二銻(Sb2O3)	ND	
溴化阻燃劑 (除PBBs, PBDEs,HBCDD,TBBPA, TBBP-A-bis 以外)	無鹵素材料 Halogen free materials	800	--
Brominated flame retardants (Exemption for PBBs and PBDEs,HBCDD,TBBPA, TBBP-A-bis)	有鹵材料,作為阻燃劑使用	R	
	Uesd as flame retardants in halogen materials		
氯化阻燃劑	無鹵素材料 Halogen free materials	800	
Chlorinated flame retardants	有鹵材料,作為阻燃劑使用 Uesd as flame retardants in halogen materials	R	
特定阻燃劑 Specific flame retardants (25g 以上塑膠製品中的阻燃劑;EU 指令67/548/EEC 裡分類為R40, R45, R46, R48,R50, R51, R52, R53, R60, R61 的阻燃劑和其組成物) (Flame retardant in plastic product which weight is above 25g,flame retardants that classification as R40, R45, R46, R48,R50, R51, R52, R53, R60, R61 in EU Directive 67/548/EEC)		1000	67/548/EEC
甲醛 Formaldehyde	PCB產品及原材料(非木質品) PCB and raw materials except wooden materials	ND	ChemVerbotsV;GB 18401-2003/2005,China;GB 20400-2006, China;H108-AB
	包裝紙箱&墊板、環保板等木質品 Packaging Box &Wooden materials, such as plate	75ppm或0.1ml/m ³	
單鹵化芳香族物質Mono-halogenated aromatic substances		50	Switzerland's Chemikalien Rest Risiko Verordnung from 1 July,2005
多鹵化芳香族物質poly-halogenated aromatic substances		50	--

有害物質名稱 Hazardous Substances		允許濃度 Acceptable Concentration (ppm)	參考 Reference
鎳以及其化合物 Nickel and its compound	1) 塑膠,顏料,油漆,油墨等與皮膚長期接觸之物料,	ND	EU Directive 76/769/EEC
	Plastics, pigments, dyes, paints, inks and material which Prolonged contact with skin		EU Directive 94/27/EC;JIG-101
	其它所有用途	500	REACH 1907/2006 and amendment
磷Phosphorus	作為阻燃劑 As flame retardants	R	Japan: Industrial Safety and Health Law
	其它所有用途 Other purpose	1000	
二乙二醇單丁醚 2-(2-butoxyethoxy)ethanol(DEGBE)		1000	--
乙二醇單丁醚2-butoxyethoxy		1000	--
乙二醇Glycol		1000	--
雙酚A Bisphenol A	除以下其它所有用途 All purpose except below	50	REACH 1907/2006 and amendment;California Proposition 65;Apple Policy
	膠片Prepreg	R	
	熱敏紙Thermistor pape	ND	
二苯基甲烷二異氰酸酯Methylenediphenyl diisocyanate (MDI)		1000	--
硒及其化合物Selenium and Selenium Compounds(Se)		100	--
鉍及其化合物Bismuth and its Compounds(Bi)		100	--
二甲基亞砷 (DMSO)		30000	--
PCB產品中VOC揮發量管制標準 VOC control limit of PCB		Table 1-20	--
Strontium chromate		1000	JIG
甲醇(禁止使用甲醇體積大於10%的清潔劑,脫脂劑)		<10%	客戶要求
礦物油 (由1至7個芳香環組成的芳香烴礦物油(MOAH);由16至35個碳原子組成的飽和烴礦物油(MOSH)		MOAH<1;MOSH<1000	法國礦物油法令 (包材・油墨)
Mineral Oil Hydrocarbons(Mineral Oil Saturated Hydrocarbons,MOSH;Mineral Oil Aromatic Hydrocarbons ,MOAH)			
磷酸三丁酯Tri-n-butyl phosphate (TNBP)		1000	G088
磷酸二苯辛酯Ethylhexyl diphenyl phosphate (EHDPP)		1000	G088
雙酚S,雙酚F及其他雙酚類物質 Bisphenol S[BPS], Bisphenol F[BPF], and other bisphenol substance		100	瑞士化學品法 Q007-0H

3.產品報告物質：計21項。Reported substances in products：Totaled 21 items.

有害物質名稱 Hazardous Substances	允許濃度 Acceptable Concentration (ppm)	參考 Reference
氟Fluorine	R	REACH Annex XVII;客戶要求
三價鉻化合物 Cromium(III) compound	1000R	--
環十二烷 Cyclododecane	1000R	--
REACH高關注度物質 REACH SVHC	1000	REACH 1907/2006 and amendment
REACH 附錄XVII REACH Annex XVII	參照法規管控	REACH 1907/2006 and amendment
其它金屬物質	1000R;鉍：ND;鉍：ND	--
顏料紅251、顏料紅3	1000R	GADSL
七甲基苯基環狀四矽氧烷heptamethylphenyl-Cyclotetrasiloxane	1000R	GADSL
光穩定劑292 · Decanedioic acid, bis(1,2,2,6,6-pentamethyl-4-piperidinyI) ester	1000R	GADSL
1,3-二氯丙醇 1,3-Dichloro-2-propanol	1000R	GADSL
二溴新戊二醇Dibromoneopentyl-glycol	1000R	--
正丁基縮水甘油醚1,2-EPOXY-3-BUTOXYPROPANE	1000R	--
丁酮X 2-Butanone oxime	1000R	--
2,3-二溴-1-丙醇2,3-DIBROMO-1-PROPANOL	1000R	--
nzyl chloride氯化苄	1000R	K038&Z007-0D

有害物質名稱 Hazardous Substances	允許濃度 Acceptable Concentration (ppm)	參考 Reference
1,7,7-三甲基-3-(苯亞甲基)雙環[2,2,1]庚烷-2-酮(三苯亞甲基樟腦)	R	AUO-0K
1,7,7-trimethyl-3-(phenylmethylene)-Bicyclo[2.2.1]heptan-2-one		
4,4'-亞甲基雙(2,6-二乙基苯胺) 4,4'-methylenebis[2,6-diethyl-benzenamin	R	AUO-0K
稀土金屬及其化合物Rare-earth Metals and Compounds附表 1-21	N.I.A	AUO-0K;Q007-0H
N-乙基-2-吡咯烷酮 N-Ethyl-2-pyrrolidinone	1000R	A005-0H
含溴有機溶劑 Brominated Organic Solvents	1000R	A005-0H
添加型磷系阻燃劑 Addtive Phosphorous Flame Retardants	1000R	A005-0H;Sweden Chemical Tax(2016:1067)
內分泌干擾物EDCs Endocrine Disrupting Chemicals(EDCs)	1000R	A005-0H