

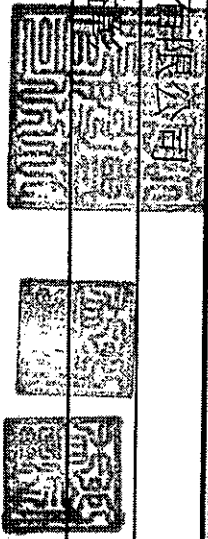
RoHS Exemptions

公司名稱 Company name : 斯博科科技股份有限公司

P/N: 立書人提供給研華的全部產品

立書人 Responsible person's name : 劉益

日期 Date : 2012.12.19



使用除外條款請列出

若沒有使用請勾選 沒有使用除外條款。

Substance	項目 Item	豁免項目 Exemption	備註 Note
鎘 Cadmium (Cd)	8(a)	可用於溫度保險絲中的鎘及鎘化合物。(Cadmium and its compounds in one shot pellet type thermal cut-offs)	到期日 2012 年 1 月 1 日之廢除限制將於 2012 年 1 月 1 日實施。實驗日期自 2012 年 1 月 1 日起。凡在此日期後生產之產品均應符合豁免。 (Exemptions on 1 January 2012 and after that date may be used on spare parts for EUE placed on the market before 1 January 2012)
鎘 Cadmium (Cd)	8(b)	可用於電子接點中的鎘及鎘化合物。(Cadmium and its compounds in electrical contacts)	
鎘 Cadmium (Cd)	13	光學玻璃及濾光玻璃中所用的鎘。(Cadmium in optical and filter glass.)	
鎘 Cadmium (Cd)	21	用於硼矽玻璃瓷漆的印墨中的鎘。(Cadmium in printing inks for the application of enamels on borosilicate glass.)	
鎘 Cadmium (Cd)	30	用於位於音量大於或等於 100 分貝的大功率擴音器音圈上的電導體的電氣或機械焊點的鎘合金。(Cadmium alloys as electrical/mechanical solder joints to electrical conductors located directly on the voice coil in transducers used in high-powered loudspeakers with sound pressure levels of 100 dB (A) and more.)	
鎘 Cadmium (Cd)	35	應用在專業音響設備中光敏電阻的光耦合器中的鎘 (cadmium in photoresistor for optocouplers applied in professional audio equipment)	到期日 2009 年 12 月 31 日 (Expires on 31 December 2009)
鎘 Cadmium (Cd)	38	用於鋁結合氧化鈹的厚膜漿料中的鎘和氧化鎘。(Cadmium and cadmium oxide in thick film pastes used on aluminium bonded beryllium oxide.)	
鎘 Cadmium (Cd)	39	應用於固態照明或顯示器系統中的色彩轉換 II-VI LED (每平方毫米發光面積小於 10 μ g 的鎘) 中使用的鎘 (Cadmium in colour converting II-VI LEDs (< 10 μ g Cd per mm ² of light-emitting area) for use in solid state illumination or display systems)	到期日 2014 年 7 月 1 日 (Expires on 1 July 2014)
鎘 Cadmium (Cd)	40	專業音響設備中類比光耦合器的光敏電阻器中的鎘 (Cadmium in photoresistors for analogue optocouplers applied in professional audio equipment)	到期日 2013 年 12 月 31 日 (Expires on 31 December 2013)

汞Mercury (Hg)	1	單端螢光燈中所使用的汞含量不得超過(每個燈):(Mercury in single capped (compact) fluorescent lamps not exceeding (per burner):)	
汞Mercury (Hg)	1(a)	一般用途照明 <30 W: 5 毫克(mg)。 (For general lighting purposes < 30 W: 5 mg)	到期日至2011/1/2/31:小於3.5 mg至2012/12/31:小於2.5 mg至2012/12/31後仍可使用(Expires on 31 December 2011: 3.5 mg may be used per burner after 31 December 2011 until 31 December 2012: 2.5 mg shall be used per burner after 31 December 2012)
汞Mercury (Hg)	1(b)	一般用途照明 ≥ 30 W 且 < 50 W: 5 mg。 (For general lighting purposes ≥ 30 W and < 50 W: 5 mg)	到期日至2011/1/2/31:小於3.5 mg至2012/12/31後仍可使用(Expires on 31 December 2011: 3.5 mg may be used per burner after 31 December 2011)
汞Mercury (Hg)	1(c)	一般用途照明 ≥ 50 W 且 < 150 W: 5 mg。 (For general lighting purposes ≥ 50 W and ≤ 150 W: 5 mg)	
汞Mercury (Hg)	1(d)	一般用途照明 ≥ 150 W: 15 mg。 (For general lighting purposes ≥ 150 W: 15 mg)	
汞Mercury (Hg)	1(e)	一般用途照明, 結構為圓形或方形, 且管直徑 < 17 mm。 (For general lighting purposes with circular or square structural shape and tube diameter < 17 mm)	到期日至2011/1/2/31:小於7 mg可能2011/12/31後仍可使用(No limitation of use until 31 December 2011: 7 mg may be used per burner after 31 December 2011)
汞Mercury (Hg)	1(f)	特殊用途: 5 mg。 (For special purposes: 5 mg)	
汞Mercury (Hg)	2(a)	一般用途照明之直線型雙端螢光燈中所使用的汞含量不得超過(每個燈管):(Mercury in double capped linear fluorescent lamps for general lighting purposes not exceeding (per lamp):)	
汞Mercury (Hg)	2(a)(1)	一般壽命之三波長螢光燈, 其管直徑 < 9 mm (例如T2): 5 mg。 (Tri-band phosphor with normal lifetime and a tube diameter > 9 mm (e.g. T2): 5 mg)	到期日至2011/1/2/31: 小於4 mg: 2011/12/31後仍可使用(Expires on 31 December 2011: 4 mg may be used per lamp after 31 December 2011)
汞Mercury (Hg)	2(a)(2)	一般壽命之三波長螢光燈, 其管直徑 ≥ 9 mm 且 < 17 mm (例如T5): 5 mg。 (Tri-band phosphor with normal lifetime and a tube diameter ≥ 9 mm and < 17 mm (e.g. T5): 5 mg)	到期日至2011/1/2/31: 小於3 mg: 2011/12/31後仍可使用(Expires on 31 December 2011: 3 mg may be used per lamp after 31 December 2011)
汞Mercury (Hg)	2(a)(3)	一般壽命之三波長螢光燈, 其管直徑 > 17 mm 且 < 28 mm (例如T8): 5 mg。 (Tri-band phosphor with normal lifetime and a tube diameter ≥ 17 mm and ≤ 28 mm (e.g. T8): 5 mg)	到期日至2011/1/2/31: 小於3.5 mg: 2011/12/31後仍可使用(Expires on 31 December 2011: 3.5 mg may be used per lamp after 31 December 2011)
汞Mercury (Hg)	2(a)(4)	一般壽命之三波長螢光燈, 其管直徑 > 28 mm (例如T12): 5 mg。 (Tri-band phosphor with normal lifetime and a tube diameter > 28 mm (e.g. T12): 5 mg)	到期日至2012/12/31: 小於3.5 mg: 2012/12/31後仍可使用(Expires on 31 December 2012: 3.5 mg may be used per lamp after 31 December 2012)

汞Mercury (Hg)	2(a)(5)	長壽命($\geq 25\ 000$ h)之三波長螢光燈: 8 mg。(Tri-band phosphor with long lifetime ($\geq 25\ 000$ h): 8 mg)	到期日至2011/12/31; 小於5 mg: 2011/12/31後仍可使用(Expires on 31 December 2011; 5 mg may be used per lamp after 31 December 2011)
汞Mercury (Hg)	2(b)	其他螢光燈中所使用的汞含量不得超過(每個燈管):(Mercury in other fluorescent lamps not exceeding (per lamp):)	
汞Mercury (Hg)	2(b)(1)	直線型磷酸鹽燈管, 其管直徑 > 28 mm (例如T10及T12): 10 mg。(Linear halophosphate lamps with tube > 28 mm (e.g. T10 and T12): 10 mg)	到期日至2012/4/13 (Expires on 13 April 2012)
汞Mercury (Hg)	2(b)(2)	非直線型磷酸鹽燈管(所有管直徑): 15 mg。(Non-linear halophosphate lamps (all diameters): 15 mg)	到期日至2016/4/13(Expires on 13 April 2016)
汞Mercury (Hg)	2(b)(3)	非直線型三波長螢光燈, 其管直徑 > 17 mm(例如T9)。(Non-linear tri-band phosphor lamps with tube diameter > 17 mm (e.g. T9))	無限制至2011/12/31; 小於15 mg: 2011/12/31後仍可使用(No limitation of use until 31 December 2011; 15 mg may be used per lamp after 31 December 2011)
汞Mercury (Hg)	2(b)(4)	其他一般照明及特殊用途之燈(例如感應燈)。(Lamps for other general lighting and special purposes (e.g. induction lamps))	無限制至2011/12/31; 小於15 mg: 2011/12/31後仍可使用(No limitation of use until 31 December 2011; 15 mg may be used per lamp after 31 December 2011)
汞Mercury (Hg)	3	特殊用途之冷陰極螢光燈及外部電極螢光燈(C CFL 和EEFL)中所使用的汞含量不得超過(每個燈管):(Mercury in cold cathode fluorescent lamps and external electrode fluorescent lamps (CCFL and EEFL) for special purposes not exceeding (per lamp))	
汞Mercury (Hg)	3(a)	長度較短(≤ 500 mm)。(Short length (≤ 500 mm))	無限制至2011年12月31日; 小於3.5 mg: 2011年12月31日後仍可使用(No limitation of use until 31 December 2011; 3.5 mg may be used per lamp after 31 December 2011)
汞Mercury (Hg)	3(b)	中等長度(> 500 mm 且 $< 1\ 500$ mm)。(Medium length (> 500 mm and $< 1\ 500$ mm))	無限制至2011/12/31; 小於5 mg: 2011/12/31後仍可使用(No limitation of use until 31 December 2011; 5 mg may be used per lamp after 31 December 2011)
汞Mercury (Hg)	3(c)	長度較長($> 1\ 500$ mm)。(Long length ($> 1\ 500$ mm))	無限制至2011/12/31; 小於13 mg: 2011/12/31後仍可使用(No limitation of use until 31 December 2011; 13 mg may be used per lamp after 31 December 2011)
汞Mercury (Hg)	4(a)	其他低壓放電燈中所使用的汞含量(每個燈管)。(Mercury in other low pressure discharge lamps (per lamp))	無限制至2011/12/31; 小於15 mg: 2011/12/31後仍可使用(No limitation of use until 31 December 2011; 15 mg may be used per lamp after 31 December 2011)

汞Mercury (Hg)	4(b)	一般照明明用途高壓鈉(蒸氣)燈，其改進的黃色性指數Ra > 60，所使用的汞含量不得超過(每個燈):(Mercury in High Pressure Sodium (vapour) lamps for general lighting purposes not exceeding (per burner) in lamps with improved colour rendering index Ra > 60.)	
汞Mercury (Hg)	4(b)-I	P < 155 W	無限制至2011/12/31；小於30 mg: 2011/12/31後仍可使用(No limitation of use until 31 December 2011; 30 mg may be used per burner after 31 December 2011)
汞Mercury (Hg)	4(b)-II	155 W < P < 405 W	無限制至2011/12/31；小於40 mg: 2012/12/31後仍可使用(No limitation of use until 31 December 2011; 40 mg may be used per burner after 31 December 2011)
汞Mercury (Hg)	4(b)-III	P > 405 W	無限制至2011/12/31；小於40 mg: 2012/12/31後仍可使用(No limitation of use until 31 December 2011; 40 mg may be used per burner after 31 December 2011)
汞Mercury (Hg)	4(c)	其他一般照明明用途高壓鈉(蒸氣)燈，所使用的汞含量不得超過(每個燈):(Mercury in other High Pressure Sodium (vapour) lamps for general lighting purposes not exceeding (per burner):)	
汞Mercury (Hg)	4(c)-I	P < 155 W	無限制至2011/12/31；小於25 mg: 2011/12/31後仍可使用(No limitation of use until 31 December 2011; 25 mg may be used per burner after 31 December 2011)
汞Mercury (Hg)	4(c)-II	155 W < P < 405 W	無限制至2011/12/31；小於25 mg: 2011/12/31後仍可使用(No limitation of use until 31 December 2011; 25 mg may be used per burner after 31 December 2011)
汞Mercury (Hg)	4(c)-III	P > 405 W	無限制至2011/12/31；小於40 mg: 2012/12/31後仍可使用(No limitation of use until 31 December 2011; 40 mg may be used per burner after 31 December 2011)
汞Mercury (Hg)	4(d)	高壓汞(蒸氣)燈(HPMV)的汞。(Mercury in High Pressure Mercury (vapour) lamps (HPMV))	到期日至2015/4/13(Expires on 13 April 2015)
汞Mercury (Hg)	4(e)	金屬鹵化物燈(MH)中的汞。(Mercury in metal halide lamps (MH))	
汞Mercury (Hg)	4(f)	其他本附件未提及之特殊用途放電燈的汞。(Mercury in other discharge lamps for special purposes not specifically mentioned in this Annex)	
汞Mercury (Hg)	36	直流等離子顯示器中陰極蒸射抑制劑中的汞。(每台顯示器含量不得超過30毫克，將免截止2010年7月1日)(Mercury used as a cathode sputtering inhibitor in DC plasma displays with a content up to 30 mg per display until 1 July 2010.)	到期日至2010/7/1(Expired on 1 July 2010)

六價鉻 Hexavalent-Chromium (Cr6+)	9-b	電冰箱中作為碳鋼冷卻系統防腐劑的六價鉻。(Hexavalent chromium as an anti-corrosion of the carbon steel cooling system in absorption refrigerators.)	
鉛Lead (Pb)	5(a)	陰極射線管玻璃內的鉛含量。(Lead in glass of cathode ray tubes)	
鉛Lead (Pb)	5(b)	螢光管玻璃內的鉛含量不得超過其重量之0.2%。(Lead in glass of fluorescent tubes not exceeding 0.2 % by weight)	
鉛Lead (Pb)	6(a)	鋼合金中的鉛含量不超過0.35%。(Lead as an alloying element in steel containing up to 0.35% lead by weight)	
鉛Lead (Pb)	6(b)	鋁合金中的鉛含量不超過0.4%。(Lead as an alloying element in steel aluminium containing up to 0.4%)	
鉛Lead (Pb)	6(c)	銅合金中的鉛含量不超過4%。(Lead as copper alloy containing up to 4%lead by weight.)	
鉛Lead (Pb)	7(a)	高熔點錫錫中的鉛(例如鉛含量 $\geq 85\%$ 合金中的鉛)。(Lead in high melting temperature type solders (i.e. lead-based alloys containing 85 % by weight or more lead)).	
鉛Lead (Pb)	7(b)	用於伺服器、記憶體和存儲系統和交換、信號和傳輸，以及電信網路管理的網路基礎設施備中焊料的鉛。(Lead in solders for servers, storage and storage array systems, network infrastructure equipment for switching, signalling, transmission as well as network management for telecommunications.)	
鉛Lead (Pb)	7(c)-I	含鉛之玻璃或陶瓷的電器和電子元件，介電陶瓷除外(Electrical and electronic components containing lead in a glass or ceramic other than dielectric ceramic in capacitors, e.g. piezoelectronic devices, or in a glass or ceramic matrix compound)	
鉛Lead (Pb)	7(c)-II	額定電壓為125 V AC 或250 V DC 或更高之介電陶瓷電容器中的鉛Lead in dielectric ceramic in capacitors for a rated voltage of 125 V AC or 250 V DC or higher	到期日至2013/1/1之後僅能適用於2013/1/1前就已經置於市場上的電子電機產品之備用零件(Expires on 1 January 2013 and after that date may be used in spare parts for EEE placed on the market before 1 January 2013)
鉛Lead (Pb)	7(c)-III	額定電壓小於125 V AC 或250 V DC 之介電陶瓷電容器中的鉛Lead in dielectric ceramic in capacitors for a rated voltage of less than 125 V AC or 250 V DC	
鉛Lead (Pb)	7(c)-IV	以PZT為介電陶瓷材料的電容器的鉛，該電容器使用於積體電路或分立半導體(discrete semiconductors)(Lead in PZT based dielectric ceramic materials for capacitors being part of integrated circuits or discrete semiconductors)	
鉛Lead (Pb)	12	染料輪釘線組塗層中所用的鉛。(Lead as a coating material for the thermal-conduction-module rings)	僅能適用於2010/9/24前就已經置於市場上的電子電機產品之備用零件(May be used in spare parts for EEE placed on the market before 24 September 2010)
鉛Lead (Pb)	14	微處理器封裝及封裝連接所使用含鉛量在80%-85%的焊料(含有超過兩種成份)中的鉛。(Lead in solders consisting of more than two elements for the connection between the pins and the package of microprocessors with a lead content of more than 80 % and less than 85 % by weight)	到期日至2011/1/1之後僅能適用於2011/1/1前就已經置於市場上的電子電機產品之備用零件(Expires on 1 January 2011 and after that date may be used in spare parts for EEE placed on the market before 1 January 2011)

鉛Lead (Pb)	15	用於焊接半導體終端和集成電路板載體的焊料中含鉛量。(Lead in solders to complete a viable electrical connection between semiconductor die and carrier within integrated circuit Flip Chip packages.)	
鉛Lead (Pb)	16	管狀白熾燈/矽酸鹽塗層燈管中的鉛。(Lead in linear incandescent lamps with silicate coated tubes.)	到期日至2013/9/1 (Expires on 1 September 2013)
鉛Lead (Pb)	17	專業複印設備用的高強度放電燈中作為發光劑的鹵化鉛。(Lead halide as radiant agent in High Intensity Discharge (HID) lamps used for professional reprography applications)	
鉛Lead (Pb)	19	緊縮節能燈中作為汞的特定成分中PbBiSn-Hg 及PbInSn-Hg 中的鉛以及作為輔助合金中PbSn-Hg 中的鉛。(Lead with PbBiSn-Hg and PbInSn-Hg in specific compositions as main amalgam and with PbSn-Hg as auxiliary amalgam in very compact Energy-Saving lamps (ESL))	到期日至2011/6/1 (Expires on 1 June 2011)
鉛Lead (Pb)	20	液晶顯示器中焊接前後平板螢光燈基質的玻璃中的氧化鉛。(Lead oxide in glass used for bonding front and rear substrates of flat fluorescent lamps used for liquid crystal Displays (LCD))	到期日至2011/6/1 (Expires on 1 June 2011)
鉛Lead (Pb)	21	用於矽砂玻璃瓷漆的印墨中的鉛。(Lead in printing inks for the application of enamels on borosilicate glass.)	
鉛Lead (Pb)	22	用於光纖通訊系統中以稀土釷石晶體製成的法拉第旋轉器中作為雜質的鉛。(Lead as impurity in RIG (rare-earth iron garnet) Faraday rotators used for fibre optic communications systems.)	到期日至2009/12/31 (Expires on 31 December 2009)
鉛Lead (Pb)	23	細間距零件(不包括連接器)內的鉛。其內使用錫鐵合金導線架或銅製導線架(間距等於或小於0.65mm)。(Lead in finishes of fine pitch components other than connectors with a pitch of 0.65 mm or less with NiFe lead frames and lead in finishes of fine pitch components other than connectors with a pitch of 0.65 mm or less with copper lead frames.)	僅能適用於2010/9/24前就已經置於市場上的電子電機產品之備用零件(May be used in spare parts for EEE placed on the market before 24 September 2010)
鉛Lead (Pb)	24	通孔盤狀及平面陣列陶瓷多層電容器焊料所含的鉛。(Lead in solders for the soldering to machined through hole discoidal and planar array ceramic multilayer capacitors)	
鉛Lead (Pb)	25	等離子顯示屏(PDP)及表面傳導式電子發射顯示器(SED)的構件所用的氧化鉛。(Lead oxide in plasma display panels (PDP) and surface conduction electron emitter displays (SED) used in structural elements; notably in the front and rear glass dielectric layer, the bus electrode, the black stripe, the address electrode, the barrier ribs, the seal frit and frit ring as well as in print pastes.)	
鉛Lead (Pb)	26	藍黑熾輝玻璃外罩所含的氧化鉛。(Lead oxide in the glass envelope of Black Light Blue (BLB) lamps.)	到期日至2011/6/1 (Expires on 1 June 2011)
鉛Lead (Pb)	27	在大功率揚聲器中作為轉換器材料的鉛合金。(Lead alloys as solder for transducers used in high-powered (designed to operate for several hours at acoustic power levels of 125 dB SPL and above) loudspeakers.)	到期日至2010/9/24 (Expired on 24 September 2010)
鉛Lead (Pb)	29	在第69/493/EEC 號指令附件1 第1、2、3 及4 分類定義下之水晶玻璃的鉛。(Lead bound in crystal glass as defined in Annex I (Categories 1, 2, 3 and 4) of Council Directive (69/493/EEC).)	
鉛Lead (Pb)	31	用於無汞平面螢光燈(例如: 用於液晶顯示器、設計或工業照明) 的焊料中的鉛。(Lead in soldering materials in mercury free flat fluorescent lamps (which e.g. are used for liquid crystal displays, design or industrial lighting).)	
鉛Lead (Pb)	32	用於氬和氪離射管防護窗組合件的封裝玻璃料裏的鉛的氧化物。(Lead oxide in seal frit used for making window assemblies for Argon and Krypton laser tubes.)	

鉛 lead (Pb)	33	涉及電源變壓器中直徑100微米及以下細銅線所用焊料中的鉛。(Lead in solders for the soldering of thin copper wires of 100 µm diameter and less in power transformers.)	
鉛 lead (Pb)	34	金屬陶瓷微調電位計中的鉛(Lead in cement-based trimmer potentiometer elements.)	
鉛 lead (Pb)	37	基於硼酸鋅玻璃體的高壓二極體電鍍層的鉛。(Lead in the plating layer of high voltage diodes on the basis of a zinc borate glass body.)	
鉛 lead (Pb)	11(a)	C-press 順應針連接器系統中使用的鉛。(Lead used in C-press compliant pin connector systems)	僅能適用於2010/9/24前就已設置於市場上的電子電機產品之備用零件(May be used in spare parts for EEE placed on the market before 24 September 2010)
鉛 lead (Pb)	11(b)	除了C-press 之外其他順應針連接系統中使用的鉛	到期日至2013/1/1之後僅能適用於2013/1/1前就已設置於市場上的電子電機產品之備用零件Expires on 1 January 2013 and after that date may be used in spare parts for EEE placed on the market before 1 January 2013
鉛 lead (Pb)	13(a)	光學玻璃及濾光玻璃中所用的鉛。(Lead in optical and filter glass.)	
鉛 lead (Pb)	13(b)	濾光玻璃及用來當做反射率標準片玻璃中的鉛及鎘。(Cadmium and lead in filter glasses and glasses used for reflectance standards)	
鉛 lead (Pb)	18(a)	當放電燈被用作含磷仿日曬燈(例如BSP) 或二氯化物列印、平版印刷、捕蟲器、以及含磷化學和含磷食物加工過程的專業燈時(例如SNAS) 放電燈中的螢光粉觸媒劑的鉛(鉛含量1%以下)。 (Lead as activator in the fluorescent powder (1% lead by weight or less) of discharge lamps when used as sun-tanning lamps containing phosphors such as BSP (BaSi2O5.Pb) as well as when used as specialty lamps for diazo printing, reprography, lithography, insect traps, photochemical and curing processes containing phosphors such as SMS ((Sr, Ba) 2MgSi2O7.Pb))	到期日至2011/1/1(Expires on 1 January 2011)
鉛 lead (Pb)	18(b)	當放電燈被用作含磷仿日曬燈(例如BSP)、其中的螢光粉觸媒劑的鉛(鉛含量1%以下)。(Lead as activator in the fluorescent powder (1 % lead by weight or less) of discharge lamps when used as sun tanning lamps containing phosphors such as BSP (BaSi 2 O 5 .Pb))	

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