

SPT-00001 PureGMS 技術標準

有害物質管理一覽表 (1)

| 有害物質名稱 Hazardous substances | | 參考法規 Reference |
|-----------------------------|--|--|
| 金屬元素 (Metals element) | 鎘以及鎘化合物* (Cadmium (Cd) and cadmium compounds) | 2011/65/EU |
| | 鉛以及鉛化合物* (Lead (Pb) and lead compounds) | |
| | 汞以及汞化合物* (Mercury (Hg) and mercury compounds) | |
| | 六價鉻化合物* (Hexavalent chromium (Cr ⁺⁶) compounds) | |
| | 鎳以及鎳化合物 (Nickel (Ni) and nickel compounds) | REACH Annex17 (27) JIG-101 94/27/EC |
| | 鈹以及鈹化合物 (Beryllium(Be) and its compounds) | JIG-101 |
| | 鉍以及鉍化合物 (Bismuth(Bi) and its compounds) | JIG-101 |

* RoHS 管控的十項物質

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有害物質管理一覽表 (2)

| 有害物質名稱 Hazardous substances | | 參考法規 Reference |
|-------------------------------|--|---|
| 類金屬元素 (Metal-like element) | 銻以及銻化合物 (Antimony(Sb) and its compounds) | JIG-101 |
| | 砷以及砷化合物 (Arsenic (As) and arsenic compounds) | REACH Annex17 (19) JIG-101 2003/2/EC |
| 其他元素 (other element) | 硒以及硒化合物 (Selenium(Se) and its compounds) | JIG-101 |
| | 放射性物質 (Radioactive substances) | Japan Law JIG-101 |
| 溴化合物 (Brominde) | 多溴聯苯* (PBB) (Polybrominated biphenyls) | 2011/65/EU |
| | 多溴聯苯醚* (PBDE) (Polybrominated diphenylethers) | |

* RoHS 管控的十項物質

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有害物質管理一覽表 (3)

| 有害物質名稱 Hazardous substances | | 參考法規 Reference |
|-----------------------------|---|-------------------|
| 溴化合物 (Bromide) | 四溴丙二酚 (TBBP-A) (Tetrabromobisphenol-A) | 挪威 PoHS |
| | 六溴環十二烷 (HBCDD) (Hexabromocyclododecane) | REACH 挪威 PoHS |
| | 溴系阻燃劑 (BFRs)(Brominated Flame Retardants) | IEC 61249-2-21 |
| | 其他溴化合物 (Other brominated compounds) | 67/548/EEC |
| 氯化物 (Chloride) | 多氯聯苯 (PCB) (Polychlorinated biphenyls) | REACH Annex17 (1) |
| | 多氯化萘 (PCN) (Polychlorinated naphthalenes) | |
| | 多氯三聯苯 (PCT) (Polychlorinated terphenyls) | |

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有害物質管理一覽表 (4)

| 有害物質名稱 Hazardous substances | | 參考法規 Reference |
|-----------------------------|---|---|
| 氯化化合物 (Chloride) | 氯化烷烴(氯化石蠟) (CP) (Chlorinated paraffins) | JIG-101 2002/45/EC |
| | 聚氯乙烯(PVC)以及聚氯乙烯混合物 (Polyvinyl chloride and PVC blends) | REACH Annex17 (2) WEEE |
| | 二氯化鈷 (CoCl ₂) (Cobalt Dichloride) | REACH SVHC |
| | 氯系阻燃劑 (CFRs)(Chlorinated Flame Retardants) | IEC 61249-2-21 |
| | 氯化烴類 (Chlorinated Hydrocarbons) | 67/548/EEC EU No 366/2011 |
| | 其他氯化化合物 (Other chlorinated compounds) | Stockholm Convention 97/10/EC |
| | 五氯酚 (PCP) (Pentachlorophenol) | REACH Annex17 (22) OSPAR 1999/51/EC |
| | 三氯沙 (Triclosan) | 挪威 PoHS |

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有害物質管理一覽表 (5)

| 有害物質名稱 Hazardous substances | | 參考法規 Reference |
|---|---|--|
| 氟化合物 (Fluoride) | 全氟辛烷硫磺酸 (PFOS) (Perfluorooctane sulfonates) | 2006/122/EC |
| | 全氟辛烷酸 (PFOA) 及其鹽類與酯類 (Perfluorooctyl acid and individual salts and esters of PFOA) | 2006/122/EC 2004/1935/EC |
| | 含氟溫室氣體 (Fluorinated Greenhouse Gases) | Montreal Protocol |
| | 全氟烷基物質和多氟烷基物質 Per- and Polyfluoroalkyl Substances (PFAS) | Pegatron policy |
| 有機錫化合物(含三丁基錫 (TBT) 化合物及三苯基錫 (TPT) 化合物及三丁基氧化錫 (TBTO)) Organotin compounds (including Tributyl tin compounds, Triphenyl tin compounds, Tributyl Tin Oxide) | | REACH Annex17 (20) JIG-101 2009/425/EC |
| 石綿(Asbestos) | | US TSCA REACH Annex17 (6) 91/659/EEC |
| 特定偶氮化合物 (Specific Azo compounds) | | REACH Annex17 (43) 2002/61/EC 2004/21/EC |

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有害物質管理一覽表 (6)

| 有害物質名稱 Hazardous substances | 參考法規 Reference |
|---|---|
| 甲醛 (Formaldehyde) | US CARB |
| 發泡聚苯乙烯 (EPS) (Expanded Polystyrene) | Korea Law |
| 臭氧層危害物質 (Ozone depleting substances) | Montreal Protocol |
| 鹵化二苯基甲烷 (Halogenated diphenyl methanes) | 91/339/EEC |
| 鄰苯二甲酸酯 (Phthalate)* * RoHS 管控的十項物質 (Phthalate 中的 DEHP, BBP, DBP, DIBP) | REACH Annex17 (51) REACH Annex17 (52) JIG-101 Canada Law |
| 多環芳香烴化合物 (PAHs) (Polycyclic Aromatic Hydrocarbons) | REACH Annex17 (50) 2005/69/EC Geprüfte Sicherheit |
| 雙酚A (Bisphenol-A) | 2004/19/EC 2011/8/EU |
| 雙酚F、雙酚S Bisphenol-F、Bisphenol-S | Pegatron policy |
| 氣味物質 (二甲苯麝香及酮麝香) (Fragrance substance (Musk xylene and Musk ketone)) | PoHS |

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有害物質管理一覽表 (7)

| 有害物質名稱 Hazardous substances | 參考法規 Reference |
|--|-----------------------------------|
| 界面活性劑 (DTDMAC, DODMAC/DSDMAC and DHTDMAC) (Surfactants) | 73/405/EEC 82/243/EEC |
| 紅磷、黃磷 (Red Phosphorus, Yellow Phosphorus) | JICOSH |
| 有機磷化合物 (Organophosphorus Compounds) | 83/264/EEC 美國佛蒙特州 Act 85 |
| 富馬酸二甲酯 (DMF) (Dimethylfumarate) | REACH Annex17 (61) 2009/251/EC |
| 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)) | JIG-101 |
| 壬基酚與壬基酚聚氧乙烯醚及相關物質 Nonylphenol/ethoxylates (NP/NPEs) and related substances | REACH Annex17 (46) 2003/53/EC |
| 烷基酚 (Alkylphenols) | 2003 /53 / EC |
| 木材，紙張和其它植物為基礎的產品 (Wood, Paper and Other Plant-based Products) | 2004/12/EC |
| 2,4,6三-叔丁基苯酚 (2,4,6-Tri-tert-butylphenol) | Japan Law no. 112 |

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有害物質管理一覽表 (8)

| 有害物質名稱 Hazardous substances | 參考法規 Reference |
|--|---|
| 三(2,3-二溴丙基)磷酸酯 (Tri-(2,3-dibromo-propyl phosphate)) | REACH Annex17 (4) REACH Annex17 (7) |
| 三乙啶基氧化磷 Tris-(1-aziridiny) phosphin oxide | 79/663/EE 83/264/EEC |
| 苯 | NIOSH |
| 正己烷 | GBZ 2.1 2007 ACGIH |
| 六氯丁二烯 Hexachlorobutadiene | Prohibition of Certain Toxic Substances Regulations, SOR/2012-285 |

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有害物質管理一覽表 (9)

| 有害物質名稱 Hazardous substances | 參考法規 Reference |
|---|--|
| 六溴聯苯Hexabromobiphenyl | POPs (850/2004/EC) (757/2010/EU) |
| 四溴聯苯醚、五溴聯苯醚、六溴聯苯醚及七溴聯苯醚 Tetrabromodiphenyl ether, Pentabromodiphenyl ether, Hexabromodiphenyl ether, Heptabromodiphenyl ether | |
| 奈米物質 Substance at nanoscale | France Decree no. 2012-232 of 17 February 2012 on the annual declaration on substances at nanoscale in application of article R. 523-4 of the Environment code |

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有害物質管理一覽表 (10)

| 有害物質名稱 Hazardous substances | 參考法規 Reference |
|---|---|
| 鈷及其化合物Cobalt and its compounds | Canadian Environmental Protection Act, 1999 |
| 過氯酸鹽Perchlorate | CA DTSC Perchlorate Contamination Prevention Act |
| 甲苯(Tolulene) | ACGIH (2015) |
| N-甲基吡咯烷酮(NMP) | AIHA TWA California OSHA |
| 磷化銦(Indium phosphide) | Study to support the review of the list of restricted substances and to assess a new exemption request under RoHS 2 (Pack 15) |
| 取代類二苯胺(SDPA) (Diphenylamines, Substituted (SDPA)) | Canadian Environmental Protection Act, 1999 |
| 1-溴丙烷n-Propyl Bromide (nPB) | Pegatron policy REACH SVHC |