

Galaxy	Technology Development Company
	<b>表</b> 單號碼・

# 有害物質一覽表

#### **Hazardous Substances Control List**

# 壹、RoHS 限用之物質 RoHS Related substances

(1)RoHS 指令的有害物質 Hazardous Substances of RoHS Directive:

(1)	Kons 自令的有言物具 nazaruous substances of Kor	is birective.	
項目	物質名稱	限制值	備註內容 Remark
Item	Substances	Threshold Limit	инт эд кешик
1	鎘及其化合物 (Cd)	<100ppm	
1	Cadmium (Cd) and its compounds	~100ррш	
2	鉛及其化合物 (Pb)	<1000ppm	
2	Lead (Pb) and its compounds	<1000ppm	重金屬
3	汞及其化 <mark>合物 (Hg)</mark>	<1000ppm	Heavy Metal
3	Mercury (Hg) and -compounds	<1000ppm	
4	六價 <mark>鉻及其化合</mark> 物 (Cr <sup>6+</sup> )	<1000ppm	
4	Chromium (hexavalent) compounds	~1000ppiii	
5	多 <mark>溴聯苯</mark> (PBB)	<1000ppm	有機溴化合物 有機溴化合物
3	Polybrominated biphenyls	~1000ppiii	
6	多溴聯苯醚 (PBDEs)	<1000ppm	Organic bromine compounds
O	Polybromodiphenyl ethers	<1000ppm	compounds
7	鄰苯二甲酸二(2-乙基己基)酯 (DEHP)	<1000ppm	*************************************
/	Bis (2-ethylhexyl) phthalate	<1000ppm	鄰苯二甲酸與 3-甲
8	鄰苯二甲酸丁酯苯甲酯 (BBP)	<1000	基庚醇生成的酯類 化合物
8	Butyl benzyl phthalate	<1000ppm	
9	鄰苯二甲酸二丁酯 (DBP)	<1000	Its Bis
9	Dibutyl phthalate	<1000ppm	(2-ethylhexyl) phthalate
10	鄰苯二甲酸二異丁酯 (DIBP)	<1000nnm	compounds
10	Diisobutyl phthalate	<1000ppm	compounds

#### 環境管理物質主要對象 Environmental management of the main material objects:

#### ①鎘 ( Cd )

物質名稱:	
Substances	Cadmium (Cd) and its compounds.
說明: Description	金屬、合金、無機化合物、有機化合物、無機鹽、有機鹽等包含鎘元素的所有物質。 Metals, alloys, inorganic compounds, organic compounds, inorganic salts, organic salts and other substances containing cadmium.
主要用途:	塑料、塗料、表面處理、電池等。
Main purpose	Plastics, coatings, surface treatment, batteries

#### ②鉛(Pb)

物質名稱:	鉛以及鉛化合物。	
Substances	Lead (Pb) and its compounds.	
說明:	金屬、合金、無機化合物、有機化合物、無機鹽、有機鹽等包含鉛元素的所有物質。	
Description	Metals, alloys, inorganic compounds, organic compounds, inorganic salts, organic salts and other substances containing Lead.	

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主要用途:	包裝材、塗料、墨水、顔料、電池、焊錫材料、合金、塑料中穩定劑、電路板、元件等。
Main purpose	Packaging materials, paints, inks, pigments, batteries, solder materials, alloys, plastics Stabilizer, circuit boards, components.

#### ③汞 (Hg)

物質名稱:	汞以及汞化合物。
Substances	Mercury (Hg) and –compounds.
說明: Description	金屬、合金、無機化合物、有機化合物、無機鹽、有機鹽等包含汞元素的所有物質。 Metals, alloys, inorganic compounds, organic compounds, inorganic salts, organic salts and other substances containing Mercury.
主要用途:	包裝材、顏料、塗料、墨水、日光燈、電池、催化劑、塑料等。
Main purpose	Packaging materials, pigments, coatings, inks, fluorescent lamps, batteries, catalysts, plastics.

#### ④鉻 (Cr6+)

物質名稱:	六價鉻化合物。
Substances	Chromium (hexavalent) compounds.
說明: Description	金屬、合金為物件之外。無機化合物、有機化合物、無機鹽、有機鹽等包含六價鉻的所有物質。 Metals, alloys, inorganic compounds, organic compounds, inorganic salts, organic salts and other substances containing Mercury.
主要用途:	包裝材、電池、塗料、電鍍、防腐劑等。
Main purpose	Packaging materials, batteries, coatings, electroplating, preservatives.

#### ⑤有機溴化合物 Organic bromine compounds ---- 多溴聯苯 (PBB)

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物質名稱:	多溴聯苯 (PBB)。
Substances	Polybrominated biphenyls.
主要用途:	塑膠的阻燃劑等。
Main purpose	Plastic flame retardants.

#### ⑥有機溴化合物 Organic bromine compounds ----多溴二苯醚 (PBDE)

物質名稱:	多溴二苯醚(PBDE)。	R
Substances	Polybromodiphenyl ethers	W
主要用途:	塑膠的阻燃劑等。	
Main purpose	Plastic flame retardants.	

#### ⑦鄰苯二甲酸鹽類 Phthalate --- 鄰苯二甲酸二(2-乙基己基)酯(DEHP)

物質名稱:	₩苯二甲酸二(2-乙基己基)酯(DEHP)。	
Substances	Bis (2-ethylhexyl) phthalate	
	可做為 <u>PVC</u> 塑膠的塑化劑。PVC塑膠中DEHP的含量在1%到40%之間。DEHP還可作為液壓油、電容器的介電質及螢光	
主要用途:	棒中的溶劑。	
Main purpose	Can be used as PVC plastic plasticizer. PVC plastic DEHP content of 1% to 40%. DEHP can also be used as hydraulic oil,	
	capacitor dielectric and fluorescent rods in the solvent	

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#### ⑧鄰鄰苯二甲酸鹽類 Phthalate ----鄰苯二甲酸丁酯苯甲酯 (BBP)

物質名稱:	鄰苯二甲酸丁酯苯甲酯 (BBP)。
Substances	Butyl benzyl phthalate
主要用途:	通常用於作地板材料的泡狀聚氯乙烯;有R和R'基團的鄰苯二甲酸酯用作香水和農藥的溶劑。
Main purpose	Usually used as a flooring material of PVC; Phthalates with R and R 'groups are used as solvents for perfumes and pesticides

#### ⑨鄰苯二甲酸鹽類 Phthalate ----鄰苯二甲酸二丁酯 (DBP)

物質名稱:	郷苯二甲酸二丁酯 (DBP)
Substances	Dibutyl phthalate
主要用途: Main purpose	常用的增塑劑,也用作膠粘劑和印刷油墨的添加劑及在陶瓷材料中會添加DBP幫助混合Powder用,材料燒結後可能殘留。可溶於多種有機溶劑,如醇、醚和苯。DBP也用作一種殺體外寄生蟲藥。 Commonly used plasticizers, Also used as an adhesive and printing ink additives and in the ceramic material will be added DBP to help mix Powder, Material may remain after sintering. Soluble in a variety of organic solvents, such as alcohols, ethers and benzene. DBP is also used as an ectoparasitic drug.

#### ⑩鄰苯二甲酸鹽類 Phthalate ----鄰苯二甲酸二異丁酯 (DIBP)

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物質名稱:	鄰苯二甲酸二 <mark>異丁酯(DI</mark> BP)	
Substances	Diisobutyl phthalate	
主要用途:	是用於硝化纖維的最廉價的增塑劑。	
Main purpose Used Nitrocellulose the cheapest plasticizer.		

# (2)關注的環境管理物質 Concern on Environmental Management Substance

項目	物質名稱	限制值	備註內容 Remark
Item	Substances	Threshold Limit	用可以合 Remark
,	多氯聯苯 ( PCB )	-50	
1	Polychlorinated Biphenyls	<50ppm	
2	多氯化萘 ( PCN )	N.D.	
2	Polychlorinated Naphthalenes	N.D.	有機氯化合物
3	氯代烷烴 ( CP )	N.D.	
3	Short-chain Chlorinated Paraffins	N.D.	Organochloride compounds
4	滅蟻靈 ( Mirex )	N.D.	compounds
4	Perchlordecone	N.D.	
5	其他有機氯化合物	<000 ****	
3	Other chlorinated organic compounds	<900 ppm	
6	四溴雙酚-A-雙-(2, 3-二溴丙醚)(TBBP-A-bis)	N.D.	   有機溴化合物
0	TBBP-A,Tetrabromo Bisphenol-A	N.D.	方域决心口彻 chlorinated organic
7	其他有機溴化合物	<000	compounds
/	Other brominated organic compounds		compounds
8	有機錫化合物(三丁基錫化合物、三苯基錫化合物)	<1000	
	Organotin compounds · Tributyl tin compounds · Triphenyl tin compounds	<1000ppm	
9	石棉	N.D.	
9	Asbestos (all types)	N.D.	
10	偶氮化合物	<20	
10	Specific Azo compounds	<30ppm	
11	甲醛	ND	
11	Formaldehyde	N.D.	

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12	聚氯乙烯(PVC)以及聚氯乙烯混合物	ND	
12	Polyvinyl chloride and PVC blends	N.D.	

#### 環境管理物質主要對象 Environmental management of the main material objects:

#### ①多氯聯苯 Polychlorinated Biphenyls (PCB)

物質名稱	多氯聯苯 ( PCB ) 。	3氯聯苯(PCB)。		
Substanc	Polychlorinated Biphenyls.			
主要用途	油浸變壓器、電容器、絕緣油、潤滑油、塑膠阻燃劑等。			
Main purp	se Oil-immersed transformers, capacitors, insulating oil, lubricants, plastic flame retardants.			

#### ②多氯化萘 Polychlorinated Naphthalenes (PCN)

物質名稱:	氯化萘(PCN)。			
Substances	Polychlorinated Naphthalenes			
主要用途:	潤滑油、塗料等所 <mark>有用途:氯</mark> 原子數≥3 以上的多氯化萘(PCN)產品。			
Main purpose	Lubricants, coatings and other uses: chlorine atoms ≥ 3 or more of polychlorinated naphthalene (PCN) products			

#### ③氯代烷烴 Short-chain Chlorinated Paraffins (CP)

物質名稱:	氯代烷烴(CP)。
Substances	Short-chain Chlorinated Paraffins
主要用途:	含有附件產品的外框(外殼)、印刷電路板。
Main purpose	Contain annex Product of Frame (case), printed circuit board.

#### ④滅蟻靈 Perchlordecone (Mirex)

物質名稱:	滅蟻靈(Mirex)。	
Substances	Perchlordecone.	6
主要用途:	樹脂、橡膠、塗料、紙張、紡織物、電氣產品等的阻燃劑、殺蟲劑、防銹劑等。	K
Main purpose	Resin, rubber, paint, paper, textiles, electrical products such as flame retardants, pesticides, anti-rust agent.	(3)

#### ⑤其他有機氯化合物 Other chlorinated organic compounds

物質名稱:	其他有機氯化合物。
Substances	Other chlorinated organic compounds
主要用途:	塑膠的阻燃劑、增塑劑、印刷電路板等上的阻燃劑等。
Main purpose	Plastic flame retardants, plasticizers, Flame retardants on printed circuit boards.

#### ⑥有機溴化合物四溴雙酚-A-雙-(2,3-二溴丙醚)TBBP-A,Tetrabromo Bisphenol-A(TBBP-A-bis)

物質名稱:	有機溴化合物四溴雙酚-A-雙- ( 2,3-二溴丙醚 ) ( TBBP-A-bis )		
Substances	TBBP-A,Tetrabromo Bisphenol-A °		
主要用途:	塑膠的阻燃劑等。		
Main purpose	Plastic flame retardants		

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#### ⑦其他有機溴化合物 Other brominated organic compounds

物質名稱:	其他有機溴化合物。
Substances	Other brominated organic compounds
主要用途: 塑膠的阻燃劑、印刷電路板等上的阻燃劑等。	
Main purpose Plastic flame retardants, Flame retardants on printed circuit boards.	

#### ⑧有機錫化合物 (三丁基錫化合物、三苯基錫化合物) Organotin compounds , Tributyl tin

#### compounds `Triphenyl tin compounds

		1 0 1
	有機錫化合物(三丁基錫化合物、三苯基錫化合物)。	
	Substances	Organotin compounds · Tributyl tin compounds · Triphenyl tin compounds
	主要用途:	紡織品、塗料、墨水、防腐劑、防銹劑、油漆、黏和劑殺螺消毒劑、塑膠穩定劑、海洋防污劑。
	五安市丞 . Main purpose	Textiles, paints, inks, preservatives, rust inhibitors, paints, adhesives, snail disinfectant, plastic stabilizer, marine antifouling
	Main purpose	agent

#### ⑨石棉 Asbestos (all types)

物質名稱:	石棉。
Substances	Asbestos (all types)
主要用途:	隔熱材、 <mark>絕緣材料、</mark> 吸音材、防火材、防磨襯墊、填料等。
Main purpose	Heat insulation materials, Insulation materials, sound-absorbing material, fire-proof material, wear-resistant liner, filler.

#### ⑩偶氮化合物 Specific Azo compounds

物質名稱:	偶氮化合物
Substances	Specific Azo compounds
	紡織品染料、會與人體所接觸產品之(耳機、微型耳機、肩包的肩墊、皮帶、繩索、遙控器、膠墊、載運框、滑鼠等)
主要用途:	顏料、按照德國日用品規則的試驗法將偶氮化合物進行分解,有可能產生下表中的胺(NH2)等。
王安用述 . Main purpose	Textile dyes, will contact with the human body products (Headphones, mini-headphones, shoulder pads shoulder pads, belts,
Walli purpose	ropes, remote control, pads, carrying boxes, mouse), The decomposition of the azo compound in accordance with the test
	method of the German Code of Daily Use may result in the production of amine (NH2)

#### 偶氮化合物分解而不得產生的胺一覽表 AZO compounds forming specified amine:

"35476 — 1555 157 115 1 157 — H505 55 12 12 6 6 6 12 15 6 6 12 15 6 6 12 15 6 6 12 15 6 6 12 15 6 6 12 15 6 6 1				ompounds :	or ming specimen unimer
項次 Item	CAS No.	物質名稱 Substance	項次 Item	CAS No.	物質名稱 Substance
1	92-67-1	4-氨基聯苯 4-AMINODIPHENYL	13	838-88-0	4,4'-二氨基-3,3'-二氯二苯甲烷 3,3'-DIMETHYL,4'-DIAMINODIPHENYLMETHANE
2	92-87-5	聯苯胺 Benzidine	14	120-71-8	2-甲氧基-5-甲基苯胺 2-METHOXY-5-METHYLANILINE
3	91-59-8	2-萘胺 2-Naphthylamine	15	101-14-4	4,4'-二氨基-3,3'-二氯二苯甲烷 4,4'-METHYLENE-BIS-(2-CHLOROANILINE)
4	99-55-8	2-氨基-4-硝基甲苯 2-AMINO-4-NITROTOLUENE	16	101-80-4	4,4'-二氨基聯苯醚 4,4'-OXYDIANILINE

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5	95-69-2	4-氯鄰甲苯胺 4-CHLORO-O-TOLUIDINE	17	139-65-1	二氨基二苯硫醚 4,4'-THIODIANILINE
6	97-56-3	鄰氨基偶氮甲苯 O-AMINOAZOTOLUENE	18	95-53-4	鄰甲苯胺 O-TOLUIDINE
7	106-47-8	對氯苯胺 P-CHLOROANILINE	19	95-80-7	2,4-二氨基甲苯 2,4-TOLUYLENEDIAMINE
8	615-05-4	2,4-二氨基苯甲醚 2,4-DIAMINOANISOLE	20	137-17-7 2,4,5-三甲基苯胺 2,4,5-TRIMETHYLANILII	
9	101-77-9	4,4'-二氨基二苯甲烷 4,4'-DIAMINODIPHENYLMETHANE	21	90-04-0	鄰氨基苯甲醚 O-ANISIDINE
10	91-94-1	3,3'-二氯聯苯胺 3,3'-DICHLOROBENZIDINE	22	60-09-3	4-氨基偶氮苯 P-AMINOAZOBENZENE
11	119-93-7	3,3'-二甲基聯苯胺 3,3'-DIMETHYLBENZIDINE	23	95-68-1	2,4-二甲基苯胺 2.4 XYLIDINE
12	119-90-4	3,3'-二甲氧基聯苯胺 3,3'-DIMETHOXYBENZIDINE	24	87-62-7	2,6-二甲基苯胺 2,6-XYLIDINE

#### 11甲醛 Formaldehyde

物質名稱:	甲醛。
Substances	Formaldehyde
主要用途:	保存劑(福馬林)、消毒劑、建材、傢俱、尿素甲醛樹脂黏合劑等。
Main purpose	Preservatives (fumalin), disinfectants, building materials, furniture, urea formaldehyde resin adhesives.

#### 迎聚氯乙烯 (PVC) 以及聚氯乙烯混合物 Polyvinyl chloride and PVC blends

物質名稱:	聚氯乙烯(PVC)以及聚氯乙烯混合物。	
Substances	Polyvinyl chloride and PVC blends	
主要用途:	塑膠管、電纜線外緣、包裝材料、薄板、絕緣板、黏合劑等。	
Main purpose	Plastic pipe, cable edge, packaging materials, sheet, insulation board, adhesive	

# 貳、 鹵素化合物之限值與禁用規範 Limits and disable the specification of halogen compounds

# (1)無鹵素限用之物質 Halogen-free Restricted Substances

項目	物質名稱	限制值	備註內容 Remark
Item	Substances	Threshold Limit	用证内台 Kelliaik
1	氯(Cl)	<000nnm	
1	Chlorine	<900ppm	
2	溴(Br)	<900ppm	鹵族元素 Halogen
2	Bromine	<b>\900pp</b> m	elements
3	氯(Cl) + 溴(Br)	<1500	
	Chlorine + Bromine	<1500ppm	

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#### 環境管理物質主要對象 Environmental management of the main material objects:

#### ①鹵素元素 Halogen elements:

物質名稱:	氯Cl、溴Br
Substances	Chlorine `Bromine
主要用途:	PVC、PCB 板、塑膠、連接器、焊錫(助焊劑)、界面活性劑
Main purpose	PVC, PCB board, plastic, connectors, solder (flux), the surface active agent

(2) 鹵素化合物 Halogen compound

	国系に口物 Haiogen compound		
項目	物質名稱	限制值	備註內容 Remark
Item	Substances	Threshold Limit	用证内台 Kelliark
	多溴聯苯(PBBs)	<1000	
1	polybrominated biphenyls	<1000ppm	
2	多溴聯苯醚(PBDEs)	<1000ppm	
2	Polybrominated diphenyl ethers	<1000ppm	 
3	四溴雙酚-A (TBBP-A)	N.D.	深系阻燃劑 Brominated flame
3	Tetrabromo Bisphenol-A	N.D.	retardants
4	六 <mark>溴環十二烷</mark> (HBCD)	N.D.	Tetardants
4	Hexabromocyclododecane	N.D.	
5	十溴聯苯醚(Deca-BDE)	<100ppm	
3	Bis(pentabromophenyl) ether	~100ррш	
6	短鏈氯化石臘(C10-13,SCCP)	<1000ppm	
	short-chain chlorinated paraffins	~1000ррш	- 
7	中鏈氯化烷烴(MCCP)		配示性無用 Chlorinated flame
,	Medium-chain chlorinated paraffins	~1000ррш	retardants
8	氯化脂環烴四氯鄰苯二甲酸酐(TCP)	<1000ppm	retardants
	Tetrachlorophthalic anhydride	чтоооррии	
9	多氯聯苯(PCBs)	<50ppm	
	Polychlorinated Biphenyls	Зоррии	氯系化合物
10	多氯化萘(PCNs)	N.D.	Chlorine-based
10	Polychlorinated Naphthalene	11.15.	compounds
11	多氯三聯苯(PCTs)	<50ppm	compounds
	Polychlorinated Terphenyls	Зоррии	
12	全氟辛酸(PFOA)	N.D.	
	Perfluorooctanoic acid	14.15.	Fluorine-based
13	全氟辛烷磺酸(PFOS)	N.D.	compound
	Perfluorooctane sulfonates	N.D.	compound

#### 環境管理物質主要對象 Environmental management of the main material objects:

#### ①溴系阻燃劑 Brominated flame retardants

物質名稱:	多溴聯苯(PBBs)、多溴聯苯醚(PBDEs)、四溴雙酚-A (TBBP-A)、六溴環十二烷(HBCD)、十溴聯苯醚(Deca-BDE)。
	polybrominated biphenyls `Polybrominated diphenyl ethers `Tetrabromo Bisphenol-A `Hexabromocyclododecane `
Substances	Bis(pentabromophenyl) ether
主要用途:	塗料、電絕緣材料、印刷電路積層板和電子封裝材料、土木和建築材料、接著劑、航太工業等。
	Coatings, Electrical Insulating Materials, Printed Circuit Boards and Electronic Packaging Materials, Civil and Building
Main purpose	Materials, Adhesives, Aerospace Industries

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#### ②氯系阻燃劑 Chlorinated flame retardants

物質名稱:	短鏈氯化烷烴(C10-13,SCCP)、中鏈氯化烷烴(MCCP)、氯化脂環烴四氯鄰苯二甲酸酐(TCP)。
Substances	short-chain chlorinated paraffins \short-chain chlorinated paraffins \same Tetrachlorophthalic anhydride
主要用途:	塗料、電絕緣材料、印刷電路積層板和電子封裝材料、土木和建築材料、接著劑、航太工業等。
五安用述 .  Main purpose	Coatings, Electrical Insulating Materials, Printed Circuit Boards and Electronic Packaging Materials, Civil and Building
Main purpose	Materials, Adhesives, Aerospace Industries

#### ③氯系化合物 Chlorine-based compounds

物質名稱:	多氯聯苯(PCBs)、多氯化萘(PCNs)、多氯三聯苯(PCTs)
Substances	Polychlorinated Biphenyls \ Polychlorinated Naphthalene \ Polychlorinated Terphenyls
主要用途:	潤滑劑、電容器油、防腐劑、油浸變壓器、絕緣油、潤滑油、塑膠阻燃劑等。
Main purpose	Lubricants, capacitor oil, preservatives, oil-immersed transformers, insulating oils, lubricants, plastic flame retardants

#### ④氟系化合物 Fluorine-based compound

_	
物質名稱:	全氟辛酸(PFOA)、 <mark>全氟辛烷</mark> 磺酸(PFOS)
Substances	Perfluorooctanoic acid Perfluorooctane sulfonates
主要用途:	紡織、皮革、造紙、金屬表面塗層、潤滑油、黏著劑、焊錫等。
Main purpose	Textiles, leather, paper, metal surface coating, lubricants, adhesives, solder

# 參、持久性有機污染物質(POPs) Persistent Organic Pollutants

# (1)限用之物質 Restricted/Banned Hazardous Substances

項目	物質名稱	限制值	備註內容 Remark
Item	Substances	Threshold Limit	HILL I'M Kelliark
1	可氯丹	ND	
1	Chlordane	N.D.	
2	地特靈	ND	
2	Dieldrin	N.D.	
3	滴滴涕 ( DDT )	ND	
3	Dichloro-Diphenyl-Trichloroethane	N.D.	
4	毒殺芬	N.D.	女性 0 種左拗 信曲
4	toxaphene,campechlor	N.D.	首批 9 種有機氯農 藥
5	安特靈	N.D.	The first batch of 9
3	Endrin	N.D.	
6	飛佈達	N.D.	organochlorine pesticides
0	Heptachlor	N.D.	pesticides
7	阿特靈	N.D.	
,	Aldrin	N.D.	
8	六氯苯	N.D.	
0	Hexachlorobenzene,hcb	N.D.	
9	滅蟻樂	N.D.	
	Mirex	N.D.	
	多氯聯苯(Pcbs)		首批用於工業之
10	多戰爭學(PCOS)  polychlorinated biphenyl	<50ppm	POPs
	poryemormated orpitetry:		The first batch for

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			industry of POPs
11	戴奥辛 Dioxins	N.D.	首批無意排放之 POPs
12	呋喃 Furans	N.D.	The first batch Unintentional discharge of POPs
13	α-六氯環己烷 Alpha hexachlorocyclohexane	N.D.	
14	β-六氯環己烷 β-hexachlorocyclohexane	N.D.	
15	十氯酮 Chlordecone	N.D.	
16	六溴聯苯 Hexabromobiphenyl	N.D.	GODA TO IM O IF
17	靈丹 Lindane	N.D.	COP4 新增 9 種 POPs
18	五氯苯 Pentachlorobenzene	N.D.	COP4 adds 9 POPs
19	全氟辛烷磺酸、其鹽類和全氟辛基磺醯氟 Perfluorooctane sulfonic acid( PFOS ), its salts and perfluorooctane sulfonyl fluoride( PFOSF )	N.D.	
20	七溴二苯醚、六溴二苯醚 HeptaBDE、HexaBDE	N.D.	
21	五溴二苯醚、四溴二苯醚 PentaBDE、TetraBDE	N.D.	
22	安殺番 Endosulfan	N.D.	COP5 新增 1 種 POPs COP5 adds 1 POPs
23	六溴環十二烷 (HBCD) Hexabromocyclododecane	N.D.	COP6 新增 1 種 POPs COP6 adds 1 POPs

#### 環境管理物質主要對象 Environmental management of the main material objects:

#### ①首批9種有機氯農藥 The first batch of 9 organochlorine pesticides

	物質名稱: Substances	可氯丹、地特靈、滴滴涕、毒殺芬、安特靈、飛佈達、阿特靈、六氯苯、滅蟻樂 Chlordane、dieldrin、Dichloro-Diphenyl-Trichloroethane(DDT)、Toxaphene,campechlor、Endrin、Heptachlor、Aldrin、 Hexachlorobenzene(HCB)、Mirex
Ī	主要用途:	殺蟲劑
	Main purpose	Insecticides

#### ②首批用於工業之POPs The first batch for industry of POPs

物質名稱:	多氯聯苯 (PCBS)
Substances	polychlorinated biphenyl
主要用途:	油浸變壓器、電容器、絕緣油、潤滑油、塑膠阻燃劑等。
Main purpose	Oil-immersed transformers, Capacitors, insulating oil, lubricants, plastic flame retardants

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#### ③首批無意排放之POPs The first batch Unintentional discharge of POPs

物質名稱:	戴奥辛、呋喃
Substances	Dioxins ` Ffurans
主要用途:	在燃燒氧化不完全以及在特定工業製程燃燒、生產行為
Main purpose	The combustion oxidation is not complete as well as In a specific industrial process combustion, production behavior

#### ④COP4新增9種POPs COP4 adds 9 POPs

物質名稱:	lpha-六氯環己烷、 $eta$ -六氯環己烷	
Substances	Substances Alpha hexachlorocyclohexane \ β-hexachlorocyclohexane	
主要用途: 生產一噸靈丹的同時會產生 6-10 噸的其他異構體		
Main purpose	Producing a ton of panacea at the same time Will produce 6-10 tons of other isomers	

物質名稱:	十氯酮
Substances	Chlordecone
主要用途:	農用殺蟲劑、殺劑和殺真菌劑
Main purpose	Agricultural pesticides, killers and fungicides

物質名稱:	六溴聯苯
Substances	Hexabromobiphenyl)
主要用途:	塑膠和合成纖維的阻燃劑
Main purpose	Plastic and synthetic fiber flame retardants

物質名稱:	靈丹、五氯苯
Substances	Lindane · Pentachlorobenzene)
主要用途:	殺蟲劑、阻燃劑
Main purpose	Insecticides, flame retardants

	物質名稱:	全氟辛烷磺酸、其鹽類和全氟辛基磺醯氟	
	Substances Perfluorooctane sulfonic acid ( PFOS ) its salts and perfluorooctane sulfonyl fluoride ( PFOSF ) )		
	主要用途:	紡織品和皮革製品、電鍍、食品包装、滅火器泡沫、地板打磨、牙科清潔劑、洗頭劑、塗料和塗料添加劑、照像和 照像平版印刷行業以及航空業的液壓油。	
	Main purpose	Textiles and leather products, electroplating, food packaging, fire extinguisher foam, floor polishes, dental cleaners,	
shampoos, coatings and coating additives, photographic and photographic lithography industries and aviation industri			

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物質名稱:	七溴二苯醚、六溴二苯醚、五溴二苯醚、四溴二苯醚	
Substances	Substances HeptaBDE \ HexaBDE \ PentaBDE \ TetraBDE	
主要用途:	阻燃劑,常添加於各種樹脂、橡膠、電子材料及建築相關材料中	
Main purpose	Flame retardant, often added to a variety of resins, rubber, electronic materials and construction-related materials	

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#### ⑤COP5新增1種POPs COP5 adds 1 POPs

	物質名稱:	安殺番
SubstancesEndosulfan主要用途:殺蟲劑、木材防腐劑		Endosulfan
		殺蟲劑、木材防腐劑
	Main purpose	Insecticides, wood preservatives

#### ⑥COP6新增1種POPs COP6 adds 1 POPs

物質名稱:	六溴環十二烷			
Substances	exabromocyclododecane · HBCD			
	車輛、建築(隔熱板和嵌入夾層中)、紡織品、電氣和電子器材(耐衝擊性聚苯乙烯 HIPS)中,亦可用於橡膠黏合			
主要用途:	劑、膠水、油漆等。			
Main purpose	ain purpose Vehicles, construction (Insulating panels and embedded interlayer), textiles, electrical and electronic equipment			
	(impact-resistant polystyrene HIPS), and can be used for rubber adhesives, glues, paint			

# 肆、包裝材料禁限用物質 Packing Materials Restricted/Banned Hazardous Substances

#### (1)限用之物質 Restricted/Banned Hazardous Substances

( )	PR用之物具 Restricted/Banned Hazardous Substanc	CS	
項目	物質名稱	限制值	備註內容 Remark
Item	Substances	Threshold Limit	用缸户3音 Remark
	鉛(Pb) + 鎘(Cd) + 汞(Hg) + 六價鉻(Cr <sup>6+</sup> )		重金屬
1	Pb+Cd+Hg+ Cr <sup>6+</sup>	<100ppm	垂並屬 Heavy Metal
	Lead+Cadmium+ Mercury+ Chromium (hexavalent) compounds		ficavy iviciai
2	聚氯乙烯(PVC)、氯乙烯及 PVC 混合物	N.D.	鹵化塑膠
2	Polyvinyl chloride \ Vinyl chloride and PVC blends	N.D.	Halogenated plastic
3	氯 C 1	<0000	
3	Chlorine	<900ppm	
4	溴 Br	<000	
4	Bromine	<900ppm	鹵素化合物
5	氯 Cl +溴 Br	<1500	Halogen compound
3	Chlorine + Bromine	<1500ppm	
6	鹵素耐燃劑	<1000ppm	
0	Halogen flame retardant	<1000ppm	
7	甲醛(木製產品)	N.D.	
/	Formaldehyde (Wooden Products)	N.D.	
8	發泡聚苯乙烯(EPS)	N.D.	
8	Foamed polystyrene	N.D.	
8	氟氯碳化物(CFCs)	ND	
8	Chlorofluorocarbons	N.D.	白怎么中地所
0	海龍	ND	臭氧危害物質
9	Halon	N.D.	Ozone hazardous
10	四氯化碳(CCL4)	N.D.	substances
10	Carbon tetrachloride	N.D.	

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11	1-1-1 三氯甲烷(C2H3Cl3)	N.D.	
11	Chloroform	N.D.	
12	氯溴甲烷(CH2BrC)	N.D.	
12	Bromochloromethane	N.D.	
13	氟氯烴化物(HCFCs)	N.D.	
13	Hydrogenated chlorofluorocarbon		
14	溴氟烴化物(HBFCs)	MD	
	Hydrogenated bromofluorocarbons	N.D.	
15	六氟化硫(HBFCs)	N.D.	
	Sulfur Hexafluoride	N.D.	

#### 環境管理物質主要對象 Environmental management of the main material objects:

#### ①包裝材料 Packing Materials

物質名稱:	包裝材料禁限用物質
Substances	Restricted/Banned Substance for Packing Materials
主要用途: Main purpose	產品包裝紙盒、產品箱、用於搬運部件包裝上的產品(把手、木框、箔以及托架、導軌、杠杆、膠捲盒、袋、緩衝材料、固定器具、薄板、繩索、硬紙箱、塗料、墨水、膠帶、捆綁帶、標籤、膠墊等)。 Products Packaging cartons, product cases, products for handling components (handles, wooden frames, foils and brackets, rails, levers, film boxes, bags, cushioning materials, fixtures, sheets, ropes, cardboard boxes, coatings, Ink, tape, tied with,
	labels, pads.)

#### 伍、其它禁限用物質 Others Restricted/Banned Hazardous Substances

#### (1)限用之物質 Restricted/Banned Hazardous Substances

項目	物質名稱	限制值	主要用途
Item	Substances	Threshold Limit	Purpose
1	磷酸三硬脂精(2-氯二乙硫醚)(TCEP)、磷酸三(2-氯丙基)酯(TCPP)、磷酸三(2,3-二氯丙基)酯(TDCPP)  Tris(2-chloroethyl) phosphate (TCEP), Tris(2-chloro-1-methylethyl) phosphate (TCPP),  Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	<1000ppm	塑膠、樹脂、纖維、布料的 耐燃劑用途 Plastics, resins, fibers, fabrics flame retardant uses.
2	高氯酸鹽 Perchlorates	<0.006ppm	炸藥、煙火、爆竹、道路照 明燈與火箭發動劑 Explosives, fireworks, firecrackers, road lighting and rocket propellant
3	氫氟碳化合物(HFC)、全氟化碳(PFC)、六氟化硫(SF6) Hydrofluorocarbon、Perfluorocarbon、Sulfur hexafluoride	N.D.	製冷劑、隔熱材料、投影機 電源裝置 Refrigerants, insulation materials, projector power supply devices
4	三取代基有機錫化合物(包含三丁基氧化錫化合物、三丁基錫化合物) Trisubstituted organotin compounds(including tributyltin (TBT) compounds and triphenyltin (TPT)compounds	<1000ppm	紡織品、手套及紡織基材的 地板革 Textiles, gloves and textile substrate of the floor leather
5	二丁基錫化合物(DBT) Dibutyltin (DBT) compounds	<1000ppm	塑膠橡膠添加劑、塗料及塗 抹劑的觸媒、託盤、裝運 管、制動機、帶盤、壓紋承

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表單號碼:

			載
			Plastic rubber additives,
			coatings and coating agent
			catalyst, tray, shipping tube,
			brake, reel, embossed bearing
(	二辛基錫化合物(DOT)	<1000	纖維、布料中的添加劑
6	Dioctyltin (DOT) compounds	<1000ppm	Fiber, fabric of the additives
	氧化鈹		合金、催化剂和耐火材料
7	単いし頭 Beryllium oxide	N.D.	Alloys, catalysts and
	Bet y titulii oxide		refractories
	数青銅 数青銅		合金、催化剂和耐火材料
8	अध्म आण Beryllium copper	N.D.	Alloys, catalysts and
	berymum copper		refractories
			乾燥劑(矽膠)中的濕度指示
9	二氯化鈷	N.D.	計
9	Cobalt dichloride	N.D.	In the desiccant (silica gel)
			Humidity indicator
			液晶屏(包含玻璃罩、手觸
	三氧化二砷、五氧化二砷 Diarsenic trioxide、Diarsenic pentaoxide		屏、後照燈)玻璃的消泡
		<1000ppm	劑、澄清劑的用途
10			LCD screen (including glass,
		hand-touch screen, backlight)	
			glass defoamer, clarifying
			agent Of the use
	郷苯二甲酸(2-乙基己基酯)、郷苯二甲酸二丁酯、郷苯二甲酸丁苄酯、郷苯二甲酸二異丁酯 Bis (2-ethylhexyl)phthalate, Dibutyl phthalate, Benzyl butyl phthalate, Diisobutyl phthalate	<1000ppm	便攜包、裝運箱、保護套、
			塑膠包裝袋、收縮膜
11			Carrying cases, shipping
			cases, protective cover,
	特定鄰苯二甲酸鹽的有害物質 Phthalates harmful substances:		plastic bags, shrink film
	行足夠本二十酸鹽的有害物質 Pindiatates narmini substances .  1. 鄰苯二甲酸二異壬酯		
	Diisononyl ortho-phthalate (DINP)		
	2. 鄰苯二甲酸(2-乙基已基)酯		
	Bis(2-ethylhexyl)ortho-phthalate (DEHP)		
	3.		
	Di-n-butyl ortho-phthalate (DBP)		
	4. 鄰苯二甲酸二異葵酯		塑膠增塑劑、農藥載體、驅
	Diisodecyl ortho-phthalate (DIDP)		蟲劑、化妝品、香味品、潤
	5.		滑劑、去污劑
12	Di-iso-butyl ortho-phthalate (DIBP)	<1000ppm	Plasticizers, pesticide
	6. 鄰苯二甲酸丁基苄酯	**	carriers, insect repellents,
	Benzyl-n-butyl ortho-phthalate (BBP)		cosmetics, fragrances,
	7. 鄰苯二甲酸二正辛酯		lubricants, detergents
	Di-n-octyl ortho-phthalate (DNOP)		
	8. 鄰苯二甲酸二異辛酯		
	Diisooctyl ortho-phthalate (DIOP)		
	9. 鄰苯二甲酸二甲酯		
	Dimethyl ortho-phthalate (DMP)		
	10. 鄰苯二甲酸二正壬酯		
	Dinonyl ortho-phthalate (DNNP)		

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	11. 鄰苯二甲酸二庚酯		
	Dinheptyl ortho-phthalate (DHP)		
	12. 鄰苯二甲酸二戊酯		
	Diphenyl ortho-phthalate (DPP)		
	13. 鄰苯二甲酸二乙酯		
	Dicthyl ortho-phthalate (DEP)		
	14. 鄰苯二甲酸二環已酯		
	Dicyclohexyl ortho-phthalate (DCHP)		
	15. 鄰苯二甲酸二丙酯		
	Di-propyl ortho-phthalate (DPRP)		
	16. 鄰苯二甲酸二壬酯		
	Diisonoyl adipate (DINA)		
			塑膠、合成纖維、其它有機
	特定苯並三氮唑		物
13	Specific benzotriazole	N.D.	Plastics, synthetic fibers, and
	-		other organic materials
			揮發性溶劑、添加劑防止發
			霉(接著劑及表面塗裝)、乾
			燥劑、丙烯纖維及塑料
	 		Plastics, synthetic fibers,
14	富馬酸二甲酯(DMF)	<0.1ppm	other organic volatile
	Dimethyl fumarate (DMF)		solvents, additives to prevent
			mildew (adhesives and
			surface coating), desiccant,
			acrylic fiber and plastic
15	多環芳香烴化合物	<1 ppm	橡膠或塑膠零部件
13	Polycyclic hydrocarbons (PAHs)	~1 ppiii	Rubber or plastic parts
16	硼酸、特定硼酸鈉	<1000 ppm	所有用途
10	Boric acid \ specific sodium borates	1000 ppin	All uses
17	4-(1,1,3,3-四甲基丁基)苯酚	<1000 ppm	所有用途
	4-(1,1,3,3-tetramethylbutyl) phenol	1000 pp	All uses
18	二乙二醇二甲醚	<1000 ppm	所有用途
	Bis(2-methoxyethyl) ether	1000 pp	All uses
19	N',N-二甲基乙醯胺(DMAC)	<1000 ppm	所有用途
	N,N-dimethylacetamide (DMAC)	1000 ppm	All uses
20	乙二醇二甲醚 ( EGDME )	<1000 ppm	所有用途
	Ethylene glycol dimethyl ether (EGDME)	- ooo Phu	All uses
21	磷酸三(二甲苯)酯	<1000 ppm	所有用途
	Trixylyl phosphate(TXP)	- FP	All uses
			塑膠之光安定劑、合金、模
	鎳及鎳化合物		組、零部件、底框、外架
22	Nickel and nickel compounds	<1000 ppm	Plastic light stabilizer, alloy,
	<b>,</b>		module, parts, the end of the
	74 \ 77.74.11 \ A.16.		frame, the outer frame
23	砷(As)及砷化合物	N.D.	半導體材料
	Arsenic (As) and Arsenic compounds		Semiconductor materials
24	銻(Sb)及銻化合物	N.D.	半導體材料
24	Antimony (Sb) and its compounds		Semiconductor materials
25	氫代雙(2-甲氧基乙基)醚	<1000 ppm	所有用途
	Bis(2-methoxyethyl) ether	2020 01	All uses

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表單號碼:\_\_\_\_\_

26	放射性物質 Radioactive substances: 鈾(U)、鈽(PU)、氡(Rn)、鋂(Am)、釷(Th)、銫(Cs)、鍶(Sr)、鋰(Li)及其他放射性物質。 Uranium (U), Plutonium (PU), Radon (Rn), Americium (Am), Thorium (Th), Cesium (Cs), Strontium (Sr), Lithium (Li) and other radioactive substances.	N.D.	電性感測零件·磷光劑 Electrical sensing parts, phosphorescent agent
27	硒(Se)以及其化合物 Seleniumand (Se) its compounds	N.D.	塑膠製品及紡織品的抗菌 塗層 Electrical sensing parts, phosphorescent agent Plastic products and textile antibacterial coating
28	鉍(Bi)以及其化合物 Bismuthand(Bi) its compounds	N.D.	所有用途(不含鉛焊料、焊料) All uses (Not included Lead solder、solder)
29	鋇(Ba)以及其化合物 Barium (Ba) and its compounds	N.D.	所有用途 All uses
30	雙酚 A Bisphenol-A	N.D.	環氧樹脂、聚碳酸酯樹脂、 其他塑膠 Epoxy resin, polycarbonate resin, other plastics
31	二甲苯麝香及酮麝香 Musk xylene and Musk Ketone	N.D.	香精 perfume
32	介面活性劑 Surfactants: DTDMAC,DODMAC / DSDMAC and DHTDMAC 雙牛油烷基二甲基氯化銨/二牛脂基二甲基氯化/二氫化(動物)脂烷基/二甲基氯化銨、雙硬酯醯基二甲基氯化銨/二硬脂基二甲基氯化銨、雙(氫化牛油烷基)二甲基氯化銨/一硬化(動物)脂基二甲基氯化銨 Dimethyl ditallow ammonium chloride, dioctyldimethylammonium chloride /distearyldimethylammonium chloride	N.D.	柔軟劑 Softener
33	五氯酚 Pentachlorphenol, PCP	N.D.	木料防腐劑及殺蟲劑 Wood preservatives and Insecticides
34	三氯沙 Triclosan	N.D.	抗菌劑及殺蟲劑 Antibacterial agent and Insecticides
35	紅磷及其化合物 Red Phosphorus and it's compound	N.D.	所有用途 All uses
36	黃磷及其化合物 Yellow Phosphorus and it's compound	N.D.	所有用途 All uses
37	六氯苯 Hexachlorobenzene	N.D.	所有用途 All uses
38	三氯苯 Trichlorobenzene	N.D.	所有用途 All uses
39	二氯甲醚 Bis-(chloromethyl) Ether	N.D.	所有用途 All uses
40	毒殺芬 Toxaphene	N.D.	所有用途 All uses
41	氯丹 Chlordanes	N.D.	所有用途 All uses

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# **Galaxy Technology Development Company**

表單號碼:\_\_\_\_\_

	于基酚與于基酚聚氧乙烯醚及相關物質		所有用途
42	工 本 的 央 工 本 的 來 和 乙 种 酸 次 伯 廟 初 貝 Noylphenol / ethexylates (NP/NPEs) and related substances	N.D.	All uses
	氯化烴		所有用途
43	がいた生 Chlorinated hydrocarbons	N.D.	All uses
	Cinormated hydrocaroons		電容器、潤滑油、絕緣油、
			1 电谷品、润凉油、肥核油、油浸變壓器
44	鹵化二苯基甲烷	ND	
44	Halogenated diphenyl methanes	N.D.	Capacitors, lubricants,
			insulating oil, oil-immersed
	甲基溴化物(溴化甲烷)		transformers 所有用途
45	中 本 演 记 初 ( 漢 记 中 玩 )  Methyl bromide (Bromomethane)	N.D.	州海用述 All uses
	溴氯甲烷		所有用途
46		N.D.	All uses
	Chlorobromomethane		
47	四氯乙烯(過氯乙烯)	N.D.	所有用途
	Tetrachloriethylenes (perchlorroethene)		All uses 所有用涂
48	三氯乙烯	N.D.	***************************************
	Trichloroethylene		All uses
49	六氯環己烷	N.D.	所有用途
	Hexachlorocyclohexane isomers (HCH)		All uses
50	多氯聯苯戴奧辛	N.D.	所有用途
	Polychlorinated dibenzodioxins (PCDDs)		All uses 所有用涂
51	多氯聯苯呋喃	N.D.	***************************************
	Polychlorinated dibenzofurans (PCDFs)		All uses
52	烷基酚	N.D.	所有用途
	Alkylphenols 電信フルウ		All uses 所有用途
53	環氧乙烷	N.D.	
	Ethylene oxide 三氯殺醇		All uses 所有用途
54	二銀权時 Kelthane	N.D.	
	氣酚		All uses 所有用途
55		N.D.	
	Chlorophenols 六氯丁二烯		All uses 所有用途
56	ハ城リー州 Hexachlorobutadiene	N.D.	All uses
	鹵化苯化合物		所有用途
57	図し本しロ初 Halogenated benzenes	N.D.	All uses
	Managenated benzenes all and the same and the same all a		所有用途
58	國已支坡成規 Halogenated diarylalkanes	N.D.	All uses
			所有用途
59	本次二本至事に初及本法卿本事に初 Polybrominated diphenyl oxide (PBBO) and Polybrominated biphenyl oxide (PBBO)	N.D.	All uses
	で で で で で で で で で で で で で で で で で で で		所有用途
60	2-benzotriazol-2-yl-4,6-ditert-butyl-phenol	N.D.	All uses
	4-硝基聯苯及其鹽類		所有用途
61	4-nitrodiphenyl and its salts	N.D.	All uses
	2,4,6- 第三丁酚		所有用途
62	2,4,6-tri-tert-butylphenol	N.D.	All uses
	<del></del>	<del> </del>	riii uses
63	本一版类 N,N'-ditilyl-p-phenylenediamine,N-tolyl-N'-xylyl-p-phenylenediamine, and	N.D.	所有用途
	N,N -dittiyi-p-pnenylenediamine,N-tolyi-N -xylyi-p-pnenylenediamine, and N,N'-dixylyl-p-phenylenediamine	N.D.	All uses
61	X,N -dixyiyi-p-pnenyienediamine 苯	ND	 所有用途
64	Φ	N.D.	川海州陸

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# **Galaxy Technology Development Company**

表單號碼	•
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	Benzene		All uses
65	鹵系碳氫化合物	N.D.	所有用途
	Halogenated hydrocarbons	N.D.	All uses
66	正己烷	N.D.	清潔劑,脫酯劑 Cleaning agents, de-ester
	n-Hexane		agent
67	三氧化二銻	N.D.	阻燃劑
	Antimony Trioxide	N.D.	Flame retardant

# 陸、歐洲化學總署公告高度關切物質(SVHC)清單 - REACH 法規 ECHA announcement List of Highly Concerned Substances (SVHC)

(1)SVHC 第一批清單 (15 項)於 2008 年 10 月 28 日公佈生效,清單如下:

Substance included in the Candidate List for authorization on 28 October 2008

and its SVHC properties:

	and its 5 v IIC properties.			
項目 Item.	物質名稱 Substances	EC NO.	CAS No.	主要用途 Purpose
1	蔥 Anthracene	204-371-1	120-12-7	染料、制紙漿的助劑 Dyes, paper pulp additives
2	4,4'-二氨基二苯甲烷 4,4'-Diaminodiphenylmethane	202-294-4	101-77-9	偶氮染料、橡膠和環氧樹脂助劑 Azo dyes, rubber and epoxy resin additives
3	鄰苯二甲酸二丁酯 Dibutyl phthalate (DBP)	201-557-4	84-74-2	增塑劑 Plasticizer
4	二氯化鈷 Cobalt dichloride	231-589-4	7646-79-9	乾燥劑、電鍍、橡膠助劑 Desiccant, electroplating, rubber additives
5	五氧化二砷 Diarsenic pentaoxide	215-116-9	1303-28-2	防腐劑、染料特種玻璃和冶金助劑 Preservatives, special glass dyes and metallurgical additives
6	三氧化二砷·俗稱砒霜 Diarsenic trioxide	215-481-4	1327-53-3	脱色劑、氧化劑、防腐劑、半導體 Bleaching agents, oxidants, preservatives, semiconductors
7	重鉻酸鈉 Sodium dichromate	234-190-3	7789-12-0 10588-01-9	染料、防腐劑、金屬表面處理 Dyes, preservatives, metal surface treatment
8	二甲苯麝香 5-Tert-butyl-2,4,6-trinitro-m-xylene (musk xylene)	201-329-4	81-15-2	香料中定香劑 Spices fixative
9	鄰苯二甲酸二(2-乙基乙醇)酯 (2-ethylhexyl) phthalate (DEHP)	204-211-0	117-81-7	增塑劑 Plasticizer

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# **Galaxy Technology Development Company**

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10	六溴環十二烷 Hexabromocyclododecane (HBCDD)	247-148-4 221-695-9	25637-99-4 3194-55-6 (134237-50-6) (134237-51-7) (134237-52-8)	阻燃劑 Flame retardant
11	C10-13 短鏈氯化石蠟 Alkanes,C10-13,chloro(Short chain chlorinated paraffin)	287-476-5	85535-84-8	塑膠增塑劑、阻燃劑、塗料、塗層 Plastic plasticizers, flame retardants, coatings,
12	三丁基氧化錫·俗稱丁蝸錫 Bis (tributyItin) oxide	200-268-0	56-35-9	紡織品、皮革添加劑 Textiles, leather additives
13	砷酸氫鉛·砷酸鉛 Lead hydrogen arsenate	232-064-2	7784-40-9	防腐劑、殺蟲劑 Preservatives, insecticides
14	三乙基砷酸鹽 Triethyl arsenate	427-700-2	15606-95-8	增塑劑 Plasticizer
15	鄰苯二甲酸苯基丁酯 Benzyl butyl phthalate ( <mark>BBP)</mark>	201-622-7	85-68-7	防腐劑、殺蟲劑 Preservatives, insecticides

# (2)SVHC 第二批清單 (13 項)於 2010年1月13日公佈,清單如下:

Substance included in the Candidate List for authorization on 13 January 2010 and its SVHC properties:

	and its 5 vii operates.			
項目	物質名稱	EC NO.	CAS No.	主要用途
Item	Substances	EC NO.	CAS No.	Purpose
16	2,4-二硝基甲苯 2,4-Dinitrotoluene	204-450-0	121-14-2	用於製作甲苯二異氰酸鹽(酯) (TDI)·進而製造聚亞安酯泡沫; 也用於白透明塑膠。 Used in the production of toluene diisocyanate (TDI), and then the manufacture of polyurethane foam; also used for white transparent plastic
17	蔥油 Anthracene oil	292-602-7	90640-80-5	用於製造其它物質·如提煉蔥、炭 黑·也用於炸藥的還原促進劑·以
18	蔥油‧蔥糊‧輕油 Anthracene oil, anthracene paste, distn. Lights	295-278-5	91995-17-4	及海洋捕撈、防腐。 Used in the manufacture of other
19	蔥油‧蔥糊‧蔥餾分 Anthracene oil, anthracene paste, anthracene fraction	295-275-5	91995-15-2	substances, Such as refining onions, carbon
20	蔥油·含蔥量少 Anthracene oil, anthracene-low	292-604-8	90640-82-7	black, Also used in explosives reduction
21	蔥油‧蔥糊 Anthracene oil, anthracene paste	292-603-2	90640-81-6	accelerator,  As well as marine fishing,  anti-corrosion
22	鄰苯二甲酸二異丁酯 Diisobutyl phthalate (DIBP)	201-553-2	84-69-5	增塑劑 Plasticizer
23	高溫煤瀝青 Coal tar pitch, high temperature	266-028-2	65996-93-2	用於工業電極・少量用於重度防腐、鋪路、粘土製作 Uses industrial electrodes, a small amount for heavy anti-corrosion,

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# **Galaxy Technology Development Company**

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				paving, clay production
24	磷酸三(2-氯乙基)酯 Tris(2-chloroethyl)phosphate (TCEP)	204-118-5	115-96-8	阻燃劑·阻燃性增塑劑 Flame retardant, flame retardant plasticizer
25	C.I.顏料黃 34 Lead sulfochromate yellow (C.I. pigment yellow 34)	215-693-7	1344-37-2	<b>女事</b> 田松光 □ 四次 並女
26	硫酸鉛鉻鉬紅(C.I.顏料紅 104) Lead chromate molybdate sulfate red (C.I. pigment red 104)	235-759-9	12656-85-8	色素,用於塑膠、油漆著色 Pigments, used in plastics, paint
27	鉻酸鉛 Lead chromate	231-846-0	7758-97-6	coloring
28	丙烯醯胺 Acrylamide	201-172-7	79-06-1	生產聚丙烯醯胺的原料 Production of polyacrylamide raw materials

#### (3)SVHC 第三批清單 (8 項)於 2010年 6 月 18 日公佈生效,清單如下:

Substance included in the Candidate List for authorization on 18 June 2010 and its SVHC properties:

項目	物質名稱	EC NO.	CAS No.	主要用途
Item	Substances	EC NO.	CAS No.	Purpose
29	三氯乙烯 Trichloroethylene	201-167-4	79-01-6	金屬部件的清潔和除油、粘合劑溶劑、用於氟氯有機化合物生產的中間體 Metal parts cleaning and degreasing, Binder solvent, For organic chlorine compounds Production of intermediates
30	硼酸 Boric acid	233-139-2 234-343-4	10043-35-3 1113-50-1	包括多種用途·如用於多種殺蟲劑和防腐劑、個人護理產品、食品添加劑、玻璃、陶瓷、橡膠、化肥、阻燃劑、油漆、工業油、制動液、焊接產品、沖印Including a wide range of uses, such as for a variety of pesticides and preservatives, personal care products, food additives, glass, ceramics, rubber, chemical fertilizers, flame retardants, paints, industrial oils, brake fluids, welding products,
31	無水四硼酸鈉 Disodium tetraborate, anhydrous	215-540-4	1330-43-4 12179-04-3 1303-96-4	包括多種用途·如用於玻璃和玻璃纖維、陶瓷、清潔劑、個人護理產品、工業液體、冶金、粘合劑、阻燃劑、農藥、化肥Including a variety of uses, such as for glass and glass fiber, ceramics, detergents, personal care products, industrial liquids, metallurgy,

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# **Galaxy Technology Development Company**

表單號碼:\_\_\_\_\_

L		/ 上 / G D 上		manufacturing, lithography, wood
36	重鉻酸鉀 Potassium dichromate	231-906-6	7778-50-9	路金屬製造、金屬處理和塗層、化學品和試劑製造、實驗室分析試劑、玻璃儀器清洗、皮革鞣劑、紡織品製造、光刻、木材處理、緩蝕劑冷卻系統 Chromium metal manufacturing, metal processing and coating, chemical and reagent manufacturing, laboratory analysis reagents, glass instrument cleaning, leather tanning agents, textile
35	重鉻酸銨 Ammonium dichromate	232-143-1	7789-09-5	氧化劑、實驗室分析試劑、皮革鞣劑、紡織品製造、製造光敏螢幕(陰極射線管)、金屬處理 Oxidizing agents, laboratory analysis reagents, leather tanning agents, textile manufacturing, manufacturing photosensitive screens (cathode ray tubes), metal processing
34	鉻酸鉀 Potassium choromate	232-140-5	7789-00-6	金屬處理和塗層、化學品和試劑製造、紡織品製造、陶瓷著色劑、皮革鞣劑、顏料/油墨製造、實驗室分析試劑、煙火製造Metal processing and coating, chemical and reagent manufacturing, textile manufacturing, ceramic coloring agents, leather tanning agents, pigment / ink manufacturing, laboratory analysis reagents, Fireworks manufacturing
33	鉻酸鈉 Sodium chromate	231-889-5	7775/11/3	實驗室(分析試劑)、製造其他個 化合物 Laboratory (analytical reagent), the manufacture of other compounds
32	水合硼酸鈉 Tetraboron disodium heptaoxide, hydrate	12267-73-1	12267-73-1	包括多種用途·如用於玻璃和玻璃纖維、陶瓷、清潔劑、個人護理產品、工業液體、冶金、粘合劑、阻燃劑、農藥、化肥Including a variety of uses, such as for glass and glass fiber, ceramics, detergents, personal care products, industrial liquids, metallurgy, adhesives, flame retardants, pesticides, fertilizers
				adhesives, flame retardants, pesticides, fertilizers

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# **Galaxy Technology Development Company**

		treatment, corrosion inhibitor
		cooling system

# (4)SVHC 第四批清單 ( 8 項 ) 於 2010 年 12 月 3 日公佈生效,清單如下: Substance included in the Candidate List for authorization on 03 December 2010 and its SVHC properties:

項目	物質名稱	EC NO.	CAS No.	主要用途
Item	Substances	EC NO.	CAS No.	Purpose
37	硫酸鈷 Cobalt(II) sulphate	233-334-2	10124-43-3	催化和烘乾·表面處理( 如電鍍) · 防腐·生產顏料、脫色 ( 在玻璃、陶瓷中)、電池、動物飼料、化肥等 Catalytic and drying, surface treatment (eg electroplating), anticorrosion, pigment production, decolorization (in glass, ceramics), batteries, animal feed, chemical fertilizers
38	硝酸鈷 Cobalt(II) dinitrate	233-402-1	10141-05-6	主要用於製造其他化學品和催化 劑。此外.還用於表面處理和電池 Mainly used in the manufacture of other chemicals and catalysts. In addition, also used for surface treatment and battery
39	碳酸鈷 Cobalt(II) carbonate	208-169-4	513-79-1	主要用於製造催化劑·也有少量用於飼料添加劑、製造其他化學品·製造顏料和膠粘劑 Mainly used in the manufacture of catalysts, but also a small amount for feed additives, manufacture of other chemicals, manufacturing paints and adhesives
40	醋酸鈷 Cobalt(II) diacetate	200-755-8	71-48-7	主要用於催化劑·也有少量用於製造其他化學品·表面處理·合金·製造顏料·乾燥·橡膠膠粘劑和飼料添加劑 Mainly used in catalysts, there are a small amount used in the manufacture of other chemicals, surface treatment, alloy, manufacturing pigments, dry, rubber adhesive and feed additives
41	2-甲氧基乙醇 2-Methoxyethanol	203-713-7	109-86-4	主要用作溶劑、化學中間體和燃料添加劑,印染工業用作渗透劑和均 染劑,燃料工業用作添加劑,紡織

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# **Galaxy Technology Development Company**

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42	2-乙氧基乙醇 2-Ethoxyethanol	203-804-1	110-80-5	浴·水溶性顏料和染料溶液·精煉 皮革的溶劑 Mainly used as solvents, Chemical intermediates, Can also be used as varnish coating agent, purification solution, dye
				bath, Water-soluble pigments and dye solutions, Refining leather solvent
43	三氧化鉻 Chromium trioxide	215-607-8	1333-82-0	主要用於金屬表面處理和水生性 木材的防腐 Mainly used for metal surface treatment and anti-corrosion of aquatic wood
44	三氧化二鉻及其低聚物產生酸:鉻酸、二鉻酸、鉻酸及二鉻酸的低聚物 Acids generated from chromium trioxide and their oligomers: Chromic acid(鉻酸) Dichromic acid(重鉻酸) Oligomers of chromic acid and dichromic acid(低聚鉻酸)	231-801-5 236-881-5	7738-94-5 13530-68-2	三氧化二鉻主要是以水溶液的形式存在·因此這些物質與三氧化二 鉻的使用相同 Chromium trioxide is mainly in the form of aqueous solution, so these substances and the use of chromium oxide the same

# (5)SVHC 第五批清單(7 項)於 2011 年 6 月 20 日公佈生效,清單如下:

Substance included in the Candidate List for authorization on 20 June 2011 and its

**SVHC** properties:

項目	物質名稱	EGNO	CACN	主要用途
Item	Substances	EC NO.	CAS No.	Purpose
45	鄰苯二甲酸二 (C6-8支鏈與直鏈) 烷基酯·富C7鏈 (DIHP) 1,2-Benzenedicarboxylic acid,di-C6-8-branched alkyl esters, C7-rich(DIHP)	276-158-1	71888-89-6	塑膠、印刷油墨、密封劑和膠粘劑中的增塑劑 Plastics, printing inks, Sealants and
				adhesives plasticizer
	鄰苯二甲酸二 ( C7-11 支鏈與直鏈 ) 烷基酯			塑膠、密封劑和膠粘劑中的增塑劑
46	1 · 2-Benzenedicarboxylic acid · di-C7-11-branched and linear alkyl	271-084-6	68515-42-4	Plastics, printing inks, Sealants and
	esters(DHNUP)			adhesives plasticizer
47	1,2,3-三氯丙烷 1,2,3-trichloropropane	202-486-1	96-18-4	生產有機氯溶劑的中間體;聚合物 和橡膠生產中的交聯劑等 The production of organic chlorine

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# **Galaxy Technology Development Company**

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				solvent intermediates; polymer and rubber production of cross-linking agent
48	N-甲基吡咯烷酮 1-methyl-2-pyrrolidone(NMP)	212-828-1	872-50-4	PVC 紡紗劑; 金屬和木材塗層; 電子原件清洗劑等 PVC spinning agent; metal and wood coating; electronic components cleaning agent
49	乙酸-2-乙氧基乙酯 2-ethoxyethyl acetate	203-839-2	111-15-9	塗料、油漆中的溶劑;化工中間 體;塑膠和橡膠塗料 A solvent in a paint or paint; Chemical intermediates; Plastic and rubber coatings
50	肼 Hydrazine	206-114-9	7803-57-8 302-01-2	合成用於化學發泡劑、油漆、油 墨、染料的肼類衍生物;聚合塗料 和膠黏劑的單體;在玻璃和塑膠上 沉積金屬過程中的還原劑 Synthetic for use in chemical blowing agents Paints, inks, dyes hydrazine derivatives Polymer coatings and adhesives monomer Reducing agents in the deposition of metals on glass and plastic
51	鉻酸鍶 Strontium chromate	232-142-6	7789-06-2	電鍍鉻;顏料和金屬緩蝕劑;PVC 著色劑 Electroplating chromium; pigment and metal corrosion inhibitor; PVC coloring agent

# (6)SVHC 第六批清單 (20 項)於 2011年 12月 19日公佈生效,清單如下: Substance included in the Candidate List for authorization on 19 December 2011

and its SVHC properties:

項目	物質名稱	EC NO.	CAS No.	主要用途
Item	Substances	EC NO.	CAS NO.	Purpose
52	1·2-二氨乙烷 1·2-Dichloroethane	203-458-1	107-06-2	橡膠・膠狀物質和樹脂的溶劑;油漆・塗料・膠點劑・清漆・肥皂和清洗劑原料;皮革和金屬清洗劑 Rubber, colloidal substances and resins; paints, coatings, adhesives, varnishes, soaps and detergents;
				leather and metal cleaners
53	4,4'-二氨基-3,3'-二氯二苯甲烷 2,2'-dichloro-4,4'- methylenedianiline(MOCA)	202-918-9	101-14-4	聚氨酯合成橡膠的助劑和原料; 膠水、膠粘劑和木製品的密封劑 Polyurethane synthetic rubber additives and raw materials; glue, adhesives and wood products sealant

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54	2-甲氧基苯胺 2-Methoxyaniline	201-963-1	90-04-0	偶氮染料、顏料和香水中間體;墨水、蠟筆、紙、聚合物和鋁箔原料Azo dyes, pigments and perfume intermediates; inks, crayons, paper, polymers and aluminum foil raw materials
55	對特辛基苯酚 4-tert-Octylphenol	205-426-2	140-66-9	表面活性劑、硫化劑和油漆中間 體;膠粘劑、聚合物單體;印染助 劑 Surfactants, vulcanizing agents and paint intermediates; adhesives, polymer monomers; printing and dyeing auxiliaries
56	二乙二醇二甲醚 Bis(2-methoxyethyl)ether	203-924-4	111-96-6	電池;塑膠和橡膠分散劑;密封 劑、膠粘劑、油漆等 Batteries; plastic and rubber dispersants; sealants, adhesives, paints
57	甲醛與苯胺的低聚物 Formaldehyde·oligomeric reaction products with aniline (technical MDA)	500-036-1	25214-70-4	化工原料;環氧樹脂固化劑;高性 能聚合物材料 Chemical raw materials; epoxy curing agent; high-performance polymer materials
58	酚酞 Phenolphthalein	201-004-7	77-09-8	酸鹼指示劑;墨水、染料等 Acid-base indicator; ink, dyes
59	鄰苯二甲酸二甲氧基乙酯 Bis(2-methoxyethyl)phthalate	204-212-6	117-82-8	聚合物的塑化劑;膠粘劑、油漆、 印刷油墨和清漆 Plasticizers for polymers; adhesives, paints, printing inks and varnishes
60	N,N-二甲基乙醯胺 N,N-dimethylacetamide ( DMAC)	204-826-4	127-19-5	聚合物溶劑;脫漆劑、油墨去除 劑、塗料和膠粘劑原料 Polymer solvent; paint remover, ink remover, paint and adhesive raw materials
61	砷酸 Arsenic acid*	231-901-9	7778-39-4	生產電路板的銅箔;玻璃製造;木 材防腐;棉織品的乾燥劑等 The production of circuit boards of copper foil; glass manufacturing; wood preservative; cotton fabric desiccant
62	砷酸鈣 Calcium arsenate*	231-904-5	7778-44-1	冶金精煉 Metallurgical refining
63	砷酸鉛 Trilead diarsenate*	222-979-5	3687-31-8	殺蟲劑;有色金屬冶煉 Pesticides; non-ferrous metal smelting
64	疊氮化鉛 Lead diazide*	236-542-1	13424-46-9	雷管引爆劑;煙火裝置引爆劑 Detonator detonator; pyrotechnic device detonating agent
65	收斂酸鉛 Lead styphnate*	239-290-0	15245-44-0	煙火彈藥等 Fireworks and ammunition

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66	苦味酸鉛 Lead dipicrate*	229-335-2	6477-64-1	炸藥 Explosives
	1			防腐漆;紗媒染過程催化劑
67	Service to American	246-356-2	24613-89-6	Preservative paint; yarn mordant
	Dichromium tris ( chromate )			process catalyst
				底漆防腐蝕劑;底漆清洗
68	坐5年10世日段生 Pentazinc chromate octahydroxide*	256-418-0	49663-84-5	Primer anti-corrosion agent; primer
	Pentazine chromate octanydroxide			cleaning
	氫氧化鉻酸鋅鉀			防腐顏料;塗料和密封劑原理
69	整章 । । ज्या सर्व अन्य प्रमाणि । Potassium hydroxyoctaoxodizincatedichromate*	234-329-8	11103-86-9	Anticorrosive pigments; Principles
	Fotassium nydroxyoctaoxodizmeatediemomate			of coatings and sealants
70	矽酸鋁・耐火陶瓷纖維	650-017-00-8*		工業熔爐、管線、管道和線纜的隔
70	Aluminosilicate Refractory Ceramic Fibres ( RCF)*	030-017-00-8		熱纖維;金屬的強化
	   氧化鋯矽酸・耐火陶瓷纖維			Industrial furnaces, pipes, pipes and
71	Zirconia Aluminosilicate Refractory Ceramic Fibres (Zr-RCF)*	650-017-00-8*		cables of the insulation fiber; metal
	Ziroma riammosmeate remactory ceramic ribres (Zi-Rer)			reinforcement

# (7)SVHC 第七批清單 (13 項)於 2012 年 6 月 18 日公佈生效,清單如下: Substance included in the Candidate List for authorization on 18 June 2012 and its SVHC properties:

項目 Item.	物質名稱 Substances	EC NO.	CAS No.	主要用途 Purpose
72	三乙二醇二甲醚(TEGDME) 1,2-bis(2-methoxyethoxy)ethane	203-977-3	112-49-2	溶劑、制程化學品 Solvents, process chemicals
73	乙二醇二甲醚(EGDME) 1,2-dimethoxyethane;ethylene glycol dimethyl ether	203-794-9	110-71-4	電池、溶劑、制程化學品 Battery, solvents, process chemicals
74	4,4'-二(二甲氨基)-4"-甲氨基三苯甲醇 4,4'-bis(dimethylamino)-4"-(methylamino)trityl alcohol	209-218-2	561-41-1	染料、油漆、顔料、墨水 Dyes, paints, pigments, inks
75	4,4'-二(二甲氨基)二苯甲酮(米氏酮) 4,4'-bis(dimethylamino) benzophenone(Michler's ketone)	202-027-5	90-94-8	染料、顏料、PCB 板、聚合物 Dyes, pigments, PCB board, polymer
76	C.I.鹼性紫 3 C.I.Basic Violet 3	208-953-6	548-62-9	紡織品、塑膠、油漆、油墨 Textiles, plastics, paint, ink
77	C.I.鹼性藍 26 C.I.Basic Blue 26	219-943-6	2580-56-5	油墨、染料、油漆、顏料、墨水 Ink, dyes, paints, pigments, inks
78	三氧化二硼 Diboron trioxide	215-125-8	1303-86-2	玻璃及玻璃纖維、電子產品阻燃 劑、膠粘劑、油墨、油漆、塗料、 殺菌劑、殺蟲劑等 Glass and glass fiber, electronic products, flame retardants, adhesives, inks, paints, coatings, fungicides, pesticides
79	甲醯胺 Formamide	200-842-0	75-12-7	中間體、增塑劑、合成皮革、油墨、溶劑等 Intermediates, plasticizers, synthetic

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				leathers, inks, solvents
80	甲基磺酸鉛 Lead(II)bis(methanesulfonate)*	401-750-5	17570-76-2	電鍍 plating
81	N,N,N',N'-四甲基-4,4'-二氨基二本甲烷(米氏城) N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)	202-959-2	101-61-1	染料、顏料 Dyes, pigments
82	1,3,5-三(環氧乙基甲基)-1,3,5-三嗪-2,4,6(1H,3H,5H)-三酮(TGIC) 1,3,5-tris(oxiranylmethyl)-1,3,5-triazine-2,4,6(1H,3H,5H)-trione	219-514-3	2451-62-9	塑膠穩定劑、PCB 油墨、電子產品 塗層、電絕緣材料、樹脂固化劑等 Plastic stabilizer, PCB ink, electronic product coating, electrical insulation materials, resin curing agent
83	C.I. 溶劑藍 4 C.I. Solvent Blue 4	229-851-8	6786-83-0	染料、油漆、顏料、墨水 Dyes, paints, pigments, inks
84	1,3,5-三-[(2S 和 2R ) -2,3-環氧丙基]-1,3,5-三嗪-2,4,6-(1H,3H,5H)-三酮 β-TGIC(1,3,5-tris[(2S and2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione)	423-400-0	59653-74-6	塑膠穩定劑、PCB 油墨、電子產品 塗層、電絕緣材料、樹脂固化劑等 Plastic stabilizer, PCB ink, electronic product coating, electrical insulation materials, resin curing agent

# (8)SVHC 第八批清單 (54 項) 於 2012 年 12 月 17 日正式公佈,清單如下: Substance included in the Candidate List for authorization on 17 December 2012 and its SVHC properties:

904-(1,1,3,3-tetramethylbutyl)phenol, ethoxylatedPaint, ink, paper, glue, textiles914,4'-二氨基-3,3'-二甲基二苯甲烷 4,4'-methylenedi-o-toluidine212-658-8838-88-0絕緣材料、聚氨酯粘合劑、環氧樹脂自化劑Insulation materials, polyurethane adhesives, epoxy resin curing agent 染料中間體、樹脂合成为expendence of the part of the par		<u> </u>			
273-688-5   69011-06-9   型膠製品   Plastic Products   1,2-苯二酸-二(支鏈與直鏈)戊基酯   1,2-Benzenedicarboxylic acid, dipentylester, branched and linear   284-032-2   84777-06-0   描述   1		122 2.11	EC NO.	CAS No.	
Plastic Products			272 (00 5	(0011.06.0	•
1,2-Benzenedicarboxylic acid, dipentylester, branched and linear   284-032-2   84777-06-0   Plasticizer	85	[Phthalato(2-)]dioxotrilead	2/3-688-5	69011-06-9	Plastic Products
1,2-Benzenedicarboxylic acid, dipentylester, branched and linear   211-076-1   629-14-1   油漆、油墨、中間體   Paints, inks, intermediates   独物、決解、香料、中間體   Paints, inks, intermediates   乗物、決解、香料、中間體   Drugs, dyes, spices, intermediates   421-150-7   143860-04-2   棟膠製品   rubber products   対称字基本酚乙氧基醚   4,4'-二氨基-3,3'-二甲基二苯甲烷   4,4'-二氨基二苯醚   4,4'-二氨基二苯醚   4,4'-二氨基二苯醚   4,4'-公ydianiline   4,4'-公ydianiline   4202-977-0   101-80-4   次料中間體、樹脂合成   Dye intermediates, resin synthesis	86	1,2-苯二酸-二(支鏈與直鏈)戊基酯	284 032 2	84777 06 0	增塑劑
1,2-Diethoxyethane	80	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	264-032-2	84777-00-0	Plasticizer
1,2-Diethoxyethane	87	乙二醇二乙醚	211 076 1	620 14 1	油漆、油墨、中間體
1-bromopropane   203-445-0   106-94-5   Drugs, dyes, spices, intermediates   421-150-7   143860-04-2   核膠製品   rubber products   143860-04-2	87	1,2-Diethoxyethane	211-0/0-1	029-14-1	Paints, inks, intermediates
Brugs, dyes, spices, intermediates   Brugs, dyes, spices, intermediates   dps   d	88	1-溴丙烷	203-445-0	106-94-5	藥物、染料、香料、中間體
3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine   421-150-7   143860-04-2   rubber products     90	88	1-bromopropane	203-443-0	100-74-3	Drugs, dyes, spices, intermediates
3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine   rubber products   対特辛基苯酚乙氧基醚   / / / / / / / / / / / / / / / / / /	80	3-乙基-2-甲基-2-(3-甲基丁基)噁唑烷	421 150 7	1/3860 0/ 2	橡膠製品
904-(1,1,3,3-tetramethylbutyl)phenol, ethoxylatedPaint, ink, paper, glue, textiles914,4'-二氨基-3,3'-二甲基二苯甲烷 4,4'-methylenedi-o-toluidine212-658-8838-88-0絕緣材料、聚氨酯粘合劑、環氧樹脂自化劑Insulation materials, polyurethane adhesives, epoxy resin curing agent 染料中間體、樹脂合成为expendence of the part of the par	0.7	3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	421-130-7	143800-04-2	rubber products
91       4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated       Paint, ink, paper, glue, textiles         91       4,4'-二氨基-3,3'-二甲基二苯甲烷       經緣材料、聚氨酯粘合劑、環氧樹脂固化劑         4,4'-methylenedi-o-toluidine       Insulation materials, polyurethane adhesives, epoxy resin curing agent 染料中間體、樹脂合成为epoxylanding         92       4,4'-二氨基二苯醚	90	對特辛基苯酚乙氧基醚	/	/	油漆、油墨、紙張、膠水、紡織品
914,4'-二氨基-3,3'-二甲基二苯甲烷 4,4'-methylenedi-o-toluidine212-658-8838-88-0脂固化劑 Insulation materials, polyurethane adhesives, epoxy resin curing agent924,4'-二氨基二苯醚 4,4'-oxydianiline202-977-0101-80-4染料中間體、樹脂合成 Dye intermediates, resin synthesis	70	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated	,	,	Paint, ink, paper, glue, textiles
914,4'-methylenedi-o-toluidine212-658-8838-88-0Insulation materials, polyurethane adhesives, epoxy resin curing agent924,4'-二氨基二苯醚 4,4'-oxydianiline202-977-0101-80-4染料中間體、樹脂合成 Dye intermediates, resin synthesis					絕緣材料、聚氨酯粘合劑、環氧樹
4,4'-methylenedi-o-toluidine     Insulation materials, polyurethane adhesives, epoxy resin curing agent	91	4,4'-二氨基-3,3'-二甲基二苯甲烷	212-658-8	838-88-0	脂固化劑
92 4,4'-二氨基二苯醚 202-977-0 101-80-4 染料中間體、樹脂合成 Dye intermediates, resin synthesis	71	4,4'-methylenedi-o-toluidine	212 030 0	030-00-0	Insulation materials, polyurethane
92 4,4'-oxydianiline 202-977-0 101-80-4 Dye intermediates, resin synthesis					adhesives, epoxy resin curing agent
4,4'-oxydianiline Dye intermediates, resin synthesis	92	4,4'-二氨基二苯醚	202-977-0	101-80-4	染料中間體、樹脂合成
	92	4,4'-oxydianiline	202-977-0	101-80-4	Dye intermediates, resin synthesis
4-氨基偶氮苯 200-453-6 60-09-3 染料中間體	03	4-氨基偶氮苯	200-453-6	60-09-3	染料中間體
4-Aminoazobenzene 200-455-0 00-09-5 Dye intermediates	93	4-Aminoazobenzene	200-455-0	00-03-3	Dye intermediates
2,4-二氨基甲苯 202-453-1 95-80-7 染料、醫藥中間體及其他有機合成	04	2,4-二氨基甲苯	202 453 1	05.80.7	染料、醫藥中間體及其他有機合成
4-methyl-m-phenylenediamine 202-433-1 93-60-7 Dyes, pharmaceutical intermediates	34	4-methyl-m-phenylenediamine	202-433-1	95-00-7	Dyes, pharmaceutical intermediates

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				and other organic synthesis
95	4-壬基(支鏈與直鏈)苯酚 4-Nonylphenol, branched and linear	/	/	油漆、油墨、紙張、膠水、橡膠製品 Paint, ink, paper, glue, rubber products
96	2-甲氧基-5-甲基苯胺 6-methoxy-m-toluidine	204-419-1	120-71-8	中間體、燃料合成 Intermediates, fuel synthesis
97	堿式乙酸鉛 Acetic acid, lead salt, basic	257-175-3	51404-69-4	油漆、塗層、脫漆劑、稀釋劑 Paint, coating, paint remover, thinner
98	4-氨基聯苯 Biphenyl-4-ylamine	202-177-1	92-67-1	染料和農藥中間體 Dyes and pesticide intermediates
99	十溴聯苯醚 Bis(pentabromophenyl) ether (DecaBDE)	214-604-9	1163-19-5	阻燃劑 Flame retardant
100	偶氮二甲醯胺 C,C'-azodi(formamide)	204-650-8	123-77-3	聚合物、膠水、墨水 Polymer, glue, ink
101	二丁基二氯化錫 Dibutyltin <mark>dichloride</mark>	211-670-0	683-18-1	紡織品和塑膠、橡膠製品 Textiles and plastics, rubber products
102	硫 <mark>酸二乙酯</mark> Diethyl sulphate	200-589-6	64-67-5	生產染料、聚合物 Production of dyes, polymers
103	鄰苯二甲酸二異戊酯 Diisopentylphthalate ( DIPP)	210-088-4	605-50-5	增塑劑 Plasticizer
104	硫酸二甲酯 Dimethyl sulphate	201-058-1	77-78-1	生產染料、聚合物 Production of dyes, polymers
105	地樂酚 Dinoseb	201-861-7	88-85-7	塑膠製品 Plastic Products
106	雙(十八酸基)二氧代三鉛 Dioxobis(stearato)trilead	235-702-8	12578-12-0	塑膠製品 Plastic Products
107	C16-18-脂肪酸鉛 Fatty acids, C16-18, lead salts	292-966-7	91031-62-8	塑膠製品 Plastic Products
108	呋喃 Furan	203-727-3	110-00-9	溶劑、有機合成 Solvents, organic synthesis
109	全氟十一烷酸 Henicosafluoroundecanoic acid	218-165-4	2058-94-8	油漆、紙張、紡織品、皮革等 Paint, paper, textiles, leather
110	全氟十四烷酸 Heptacosafluorotetradecanoic acid	206-803-4	376-06-7	油漆、紙張、紡織品、皮革等 Paint, paper, textiles, leather
111	環已烷-1,2-二羧酸酐 Hexahydro-2-benzofuran-1,3-dione · 順式-環已烷-1,2-二羧酸酐 cis-cyclohexane-1,2-dicarboxylic anhydride · 反式-環已烷-1,2-二羧酸酐 trans-cyclohexane-1,2-dicarboxylic anhydride	201-604-9 236-086-3 238-009-9	85-42-7 13149-00-3 14166-21-3	中間體、樹脂改性劑和環氧樹脂固 化劑 An intermediate, a resin modifier and an epoxy resin curing agent
112	甲基六氫鄰苯二甲酯酐 Hexahydromethylphathalic anhydride 4-甲基六氫鄰苯二甲酯酐 Hexahydro-4-methylphathalic anhydride 1-甲基六氫鄰苯二甲酯酐 Hexahydro-1-methylphathalic anhydride	247-094-1 243-072-0 256-356-4 260-566-1	25550-51-0 19438-60-9 48122-14-1 57110-29-9	生產樹脂、橡膠、聚合物 Production of resins, rubber, polymers

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	3-甲基六氫鄰苯二甲酯酐			
	Hexahydro-3-methylphathalic anhydride			
	四氟硼酸鉛			電鍍、焊接、分析試劑
113	Lead bis(tetrafluoroborate)	237-486-0	13814-96-5	Electroplating, welding, analysis
	, ,			reagents
114	氨基氰鉛鹽	244-073-9	20837-86-9	防銹
	Lead cynamidate			Antirust
115	硝酸鉛	233-245-9	10099-74-8	染料、皮革、顔料
	Lead dinitrate			Dyes, leather, pigments
	一氧化鉛			玻璃製品、陶瓷、顔料、橡膠
116	Lead oxide (lead monoxide)	215-267-0	1317-36-8	Glass products, ceramics, pigments,
	LA NAMETA AU			rubber
117	城式硫酸鉛	234-853-7	12036-76-9	塑膠製品
	lead oxide sulphate			Plastic Products
110	四氧化三鉛	215 225 (	1214 41 6	玻璃製品、陶瓷、顔料、橡膠
118	Lead tetroxide	215-235-6	1314-41-6	Glass products, ceramics, pigments, rubber
				半導體、塗料、電子陶瓷濾波器
119	鈦酸 <mark>鉛</mark>	235-038-9	12060-00-3	十等腹、空内、电丁阿瓦應双码 Semiconductors, coatings,
119	Lead titanium trioxide	233-038-9	12000-00-3	electronic ceramic filters
				光學產品、電子產品、電子陶瓷零
	<b>針</b> 鈴鉛			件
120	Lead Titanium Zirconium Oxide	235-727-4	12626-81-2	Optical products, electronic
	200 1.00.00.00.00.00.00			products, electronic ceramic parts
	甲氧基乙酸		7	中間體
121	Methoxyacetic acid	210-894-6	625-45-6	An intermediate
	No.			
122	N,N-二甲基甲醯胺	200-679-5	68-12-2	皮革、印刷電路板
	N,N-dimethylformamide; dimethyl formamide			Leather, printed circuit board
123	N-甲基乙醯胺	201-182-6	79-16-3	中間體
123	N-methylacetamide	201-182-0	/9-10-3	An intermediate
124	鄰苯二甲酸正戊基異戊基酯	,	776297-69-9	增塑劑
124	N-pentyl-isopentylphtalate		110291-09-9	Plasticizer
125	鄰-氨基偶氮甲苯	202-591-2	97-56-3	染料中間體
123	o-aminoazotoluene	202 371 2	7, 30 3	Dye intermediates
126	2-氨基甲苯	202-429-0	95-53-4	染料中間體
	o-Toluidine			Dye intermediates
127	全氟十三烷酸	276-745-2	72629-94-8	油漆、紙張、紡織品、皮革等
	Pentacosafluorotridecanoic acid			Paint, paper, textiles, leather
128	硫酸四氧化五鉛	235-067-7	12065-90-6	塑膠製品、電池
	Pentalead tetraoxide sulphate			Plastic products, batteries
129	1,2-環氧丙烷	200-879-2	75-56-9	中間體
	Propylene oxide			An intermediate
120	鉛銻黃	222 222 1	9012 00 9	油漆、塗層、玻璃陶瓷製品
130	Pyrochlore, antimony lead yellow	232-382-1	8012-00-8	Paints, coatings, glass-ceramic
				products 玻璃製品
131	珍雅蓟內矽酸與 Silicic acid, barium salt, lead-doped	272-271-5	68574-75-8	
	Sincic acia, barium sait, lead-doped	ĺ		Glass product

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132	矽酸鉛	224 262 2	234-363-3 11120-22-2	玻璃陶瓷製品
132	Silicic acid, lead salt	234-303-3	11120-22-2	glass-ceramic products
133	二城式亞硫酸鉛	263-467-1	62229-08-7	玻璃陶瓷製品
133	Sulfurous acid, lead salt, dibasic	203-407-1	02229-08-7	glass-ceramic products
134	四乙基鉛	201 075 4	79.00.2	燃油增加劑
134	Tetraethyllead	201-075-4	78-00-2	Fuel additives
135	硫酸三氧化四鉛	235-380-9	225 280 0 12202 17 4	顏料、塑膠製品、電池
133	Tetralead trioxide sulphate		12202-17-4	Pigments ,plastic products, batteries
136	全氟十二烷酸	207 202 2	6-203-2 307-55-1	油漆、紙張、紡織品、皮革等
130	Tricosafluorododecanoic acid	200-203-2		Paint, paper, textiles, leather
	 			油漆、塗料、油墨、塑膠製品
137		215-290-6	215-290-6 1319-46-6	Paints, coatings, inks, plastic
	trilead bis(carbonate)dihydroxide			products
138	二城式亞磷酸鉛	235-252-2	12141-20-7	塑膠的穩定劑
138	Trilead dioxide phosphonate	255-252-2	12141-20-7	Plastic stabilizer

# (9)SVHC 第九批清單 ( 6 項 ) 於 2013 年 6 月 20 日正式公佈,清單如下:

Substance included in the Candidate List for authorization on 20 June 2013 and its

**SVHC** properties:

	y 11 S P1 SP S1 S1 S1			
項目 Item No.	物質名稱 Substances	EC NO.	CAS No.	主要用途 Purpose
139	鎘 Cadmium	231-152-8	7440-43-9	電池電極;防腐蝕塗層;催化劑、 合金和太陽能電池;顏料;塑膠和 聚合物的穩定劑 Battery electrode; Anti - corrosion coating; catalyst, Alloys and solar cells; pigment; Plastic and polymer stabilizers
140	氧化鎘 Cadmium oxide	215-146-2	1306-19-0	電池電極;防腐蝕塗層;玻璃、合金和光電子器件;催化劑、顏料和陶瓷釉料;增強聚合物的抗熱性Battery electrode; Anti - corrosion coating; glass, Alloys and optoelectronic devices; catalyst, Pigments and ceramic glazes; Enhance the heat resistance of polymers
141	十五代氟辛酸銨鹽 Ammonium pentadecafluorooctanoate(APFO)	223-320-4	3825-26-1	含氟聚合物和氟橡膠的生產; 不粘 廚具生產中的乳化劑 Production of fluoropolymers and fluoroelastomers; Non-stick kitchen utensils in the production of emulsifiers
142	全氟辛酸 Pentadecafluorooctanoic acid(PFOA)	206-397-9	335-67-1	含氟聚合物和氟橡膠 ; 不粘廚具生 產中的乳化劑 Production of fluoropolymers and

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				fluoroelastomers; Non-stick kitchen
				utensils in the production of
				emulsifiers
143	鄰苯二甲酸二正戊酯	205-017-9	131-18-0	PVC 中的增塑劑
143	Dipentyl phthalate(DPP)	203-017-9	131-16-0	PVC in the plasticizer
	乙氧基化壬基酚(分支的或線性的)(包括含有9個碳烷基鏈的所有直鏈			
	和支鏈的結構)			採礦;洗滌劑;油漆、塗料和清漆;
	4-Nonylphenol, branched and linear, ethoxylated[substances with a linear and/or			皮革和紡織品加工
144	branched alkyl chain with a carbon number of 9 covalently bound in position 4	_	_	Mining; detergents; paints, coatings
	to phenol, ethoxylated covering UVCB- and well-defined substances, polymers			and varnishes; leather and textile
	and homologues, which include any of the individual isomers and/or			processing
	combinations thereof]			

# (10)SVHC 第十批清單 (7項)於 2013年12月16日正式公佈,清單如下:

Substance included in the Candidate List for authorization on 16 December 2013 and its SVHC properties:

項目 Item	物質名稱 Substances	EC NO.	CAS No.	主要用途 Purpose
145	硫化鎘 Cadmium sulphide	215-147-8	1306-23-6	用作半導體材料、發光材料以及搪瓷、玻璃、陶瓷、塑膠、油漆著色 Used as a semiconductor material, Luminescent materials and enamel, Glass, ceramics, plastics, paint coloring
146	鄰苯二甲酸二己酯 (DHXP)	201-559-5	84-75-3	用於樹脂合成,用作韌化劑 For resin synthesis, as a toughening agent
147	CI 直接紅 28 Disodium ,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulpho nate)(C.I. Direct Red 28)	209-358-4	573-58-0	曾廣泛用於棉、粘膠的染色·用作吸附指示劑·用於測定鹵化物、硫氰酸鹽和鋅等。用作薄層色譜法測定硫代磷酸鹽除草劑的顯色劑。還用作生物染色劑。  Has been widely used in cotton, viscose dyeing, As an adsorption indicator, For the determination of halide, thiocyanate and zinc and so on. Used as thin layer chromatography for the determination of thiophosphate herbicides. Also used as a biological stain.
148	CI 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-disulphonate (C.I. Direct Black 38)	217-710-3	1937-37-7	主要用於棉、麻、粘膠等纖維素纖 維織和的染色·也可用於蠶絲、尼 龍及其混紡織物的染色·還可用於 皮革、生物和木材的染色、塑膠的 著色及作為赤色墨水的原料等。 Mainly used for cotton, hemp,

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	I			1
				viscose and other cellulose fibers
				woven and dyeing, Can also be used
				for silk, Nylon and its blended
				fabric dyeing, Can also be used for
				leather, Biological and wood
				dyeing, Plastic coloring and as a raw
				material for red ink
	1.2 亞乙基硫脲			用作橡膠促進劑、鍍銅光亮劑
149	Imidazolidine-2-thione (2-imidazoline-2-thiol)	202-506-9	96-45-7	Used as a rubber accelerator, copper
	iniidazondiic-2-tinoiic (2-iniidazoniic-2-tinoi)			brightener
				主要用於生產硼酸鉛、硬脂酸鉛等
				鉛鹽的原料。在顏料工業醋酸鉛同
				紅礬鈉反應·是制取鉻黃(即鉻酸
				鉛)的基本原料。在紡織工業中.
				用做蓬帆布配製鉛皂防水的原
				料·在電鍍工業中·是氰化鍍銅的
				發光劑。也是皮毛行業染色助劑。
				Mainly used in the production of
	醋酸鉛(II)			lead borate, Lead stearate lead salt
150		206-104-4	301-04-2	and other raw materials. Lead in the
130	Lead di(acetate)			paint industry with the reaction of
				sodium dichromate, Is the
				preparation of chromium yellow (ie,
				lead chromate) of the basic raw
				materials. In the textile industry,
				Punta canvas used lead soap
	No.			formulated waterproof materials. In
				the electroplating industry, Copper
				cyanide is a light emitting agent. Fur
				industry also dyeing auxiliaries
151	磷酸三(二甲苯)酯	246-677-8	25155-23-1	用作增塑劑
131	Trixylyl phosphate	240-077-8	23133-23-1	Used as a plasticizer

# (11)SVHC 第十一批清單(4 項)於 2014 年 6 月 16 日正式公佈,清單如下: Substance included in the Candidate List for authorization on 16 June 2014 and its SVHC properties:

項目	物質名稱	EC NO.	CACN	主要用途
Item.	Substances	EC NO.	CAS No.	Purpose
152	鄰苯二甲酸二己酯(支鏈和直鏈)	271 002 5	69515 50 4	塑化劑
152	1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	271-093-5	68515-50-4	Plasticizers
153	過硼酸鈉	239-172-9;		漂白劑,清潔劑,化粧品
133	Sodium perborate; perboric acid, sodium salt	234-390-0	ı	Bleach, cleaning agents, cosmetics
154	過氧偏硼酸鈉	231-556-4	7632-04-4	漂白劑,清潔劑
134	Sodium peroxometaborate	231-330-4	7032-04-4	Bleach, cleaning agents
	氯化鎘			潤滑劑, 殺菌劑, 合成鎘化合物之
155		233-296-7	10108-64-2	原料
	Cadmium chloride			Lubricants, fungicides, synthetic

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		cadmium compounds of raw
		materials

# (12)SVHC 第十二批清單 ( 6 項 ) 於 2014 年 12 月 17 日正式公佈,清單如下: Substance included in the Candidate List for authorization on 17 December 2014 and its SVHC properties:

項目	物質名稱	EGNO	CACN	主要用途
Item	Substances	EC NO.	CAS No.	Purpose
156	氟化鎘 Cadmium fluoride	232-222-0	7790-79-6	電器產品生產流程使用 Electrical products production process use
157	硫化鎘 Cadmium sulphate	233-331-6	10124-36-4; 31119-53-6	電池,電極 Batteries, electrodes
158	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)	223-346-6	3846-71-7	塑膠, PU 與橡膠的 UV 安定劑, 用 於塗料的配方 Plastics, PU and rubber UV stabilizer, for the coating formulations
159	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)	247-384-8	25973-55-1	塑膠, PU 與橡膠的 UV 安定劑,用 於塗料的配方 Plastics, PU and rubber UV stabilizer, for the coating formulations
160	二正辛基-双(2-乙基己基巰基乙酸酯)錫 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE)	239-622-4	15571-58-1	PVC 熱安定劑 PVC thermal stability agent
161	二正辛基-双(2-乙基己基巰基乙酸酯)錫和單辛基-三(2-乙基己基巰基乙酸酯)錫的反應物 Reaction mass of 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate and 2-ethylhexyl 10-ethyl-4-[[2-[(2-ethylhexyl)oxy]-2-oxoethyl]thio]-4-octyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (reaction mass of DOTE and MOTE)	1>		PVC 熱安定劑 PVC thermal stability agent

# (13)SVHC 第十三批清單 ( 2 項 ) 於 2015 年 06 月 15 日正式公佈,清單如下: Substance included in the Candidate List for authorization on 15 June 2015 and its SVHC properties:

		To a fire properties.			
	項目	物質名稱	EC NO.	CAS No.	主要用途
	Item	m Substances		CAS No.	Purpose
		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			
	162	的複合物且鄰苯二甲酸二己酯含量≥0.3%	271-094-0	68515-51-5	塑化劑、潤滑劑
		1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters; 1,2-benzenedicarboxylic	272-013-1	68648-93-1	Plasticizers, lubricants
		acid, mixed decyl and hexyl and octyl diesters with ≥ 0.3% of dihexyl phthalate			

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163	[1]為卡拉花醛·[2]為卡拉花醛的一種同分異構化合物 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]	-	-	香料原料 Spices raw materials
	[covering any of the individual isomers of [1] and [2] or any combination			
	thereof]			

# (14)SVHC 第十四批清單 (5 項)於 2015年12月17日正式公佈,清單如下: Substances included in the Candidate List for authorization on 17 December 2015 and their SVHC properties:

項目	物質名稱	EC NO.	CAS No.	主要用途
Item	Substances	EC NO.	CAS No.	Purpose
164	硝基苯	202-716-0	98-95-3	製造苯胺
104	Nitrobenzene	202-710-0	96-93-3	Manufacture of other substances
				汽車的 UV 安定劑·工業木頭塗
165	2,4-二-叔丁基-6-(5-氯代 <mark>苯并三唑-2-基</mark> )苯酚	223-383-8	3864-99-1	層・橡膠・塑膠・化妝品
103	2,4-Di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)	223-363-6	3004-77-1	UV-protection agents in coatings,
				plastics, rubber and cosmetics
				汽車的 UV 安定劑·工業木頭塗
166	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)	253-037-1	36437-37-3	層・橡膠・塑膠・化妝品
100			30437 37 3	UV-protection agents in coatings,
				plastics, rubber and cosmetics
	1,3-丙烷磺內酯 1,3-Propanesultone		1120-71-4	聚氨酯橡膠分散的中間體 · 照相以
		214-317-9		及 x 光的膠片·鋰離子電池的電解
167				液
				Electrolyte fluid of lithium ion
				batteries
				LCD·清潔及防水試劑·滅火器表
				面活性劑·潤滑添加劑·製造含氟
				聚合物
			375-95-1	Processing aid for fluoropolymer
168	全氟壬酸及其鈉鹽和銨鹽	206-801-3	21049-39-8	manufacture/lubricating oil
100	Perfluorononan-1-oic-acid and its sodium and ammonium salts	200 001 5	4149-60-4	additive/surfactant for fire
			113 00 1	extinguishers/cleaning agent/textile
				antifouling finishing agent/polishing
				surfactant/waterproofing agents and
				in liquid crystal display panels

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# Galaxy Technology Development Company 表單號碼:

# (15)SVHC 第十五批清單(1 項)於 2016 年 06 月 20 日正式公佈,清單如下: Substance included in the Candidate List for authorization on 20 June 2016 and its SVHC properties:

項目	物質名稱	EC NO.	CAS No.	主要用途
Item	Substances	EC NO.	CAS No.	Purpose
	苯並[def]屈 (苯並[a]芘) Benzo[def]chrysene(Benzo[a]pyrene)			通常非刻意製造·可能是物質中的 成分或是雜質。
169		200-028-5	50-32-8	Normally not manufactured intentionally but may occur as a
				constituent or impurity in other
				substances.

# (16)SVHC 第十六批清單 (4項)於 2016年12月19日正式公佈,清單如下: Substances included in the Candidate List for authorization on 19 December 2016 and their SVHC properties:

項目 Item	物質名稱 Substances	EC NO.	CAS No.	主要用途 Purpose
170	雙酚 A 4,4'-isopropylidenediphenol (bisphenol A)	201-245-8	80-05-7	用於 PC 聚合物、環氧樹脂的硬化劑、PVC 抗氧化劑與熱感紙。 Manufacture of polycarbonate, as a hardener for epoxy resins, as an anti-oxidant for processing PVC and in thermal paper production.
171	4-庚基苯酚,支鍊及直鍊包括含有 7 個碳烷基鏈的所有獨立的同分異構體和 所有含有線性或分支 7 個碳烷基鏈的 UVCB 物質 4-Heptylphenol, branched and linear [substances with a linear and/or branched alkyl chain with a carbon number of 7 covalently bound predominantly in position 4 to phenol, covering also UVCB- and well-defined substances which include any of the individual isomers or a combination there of]		-	內分泌系統干擾 Due to its endocrine-disrupting properties for the environment.
172	十九氟癸酸及其鈉和銨鹽 Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts	206-400-3 221-470-5	3108-42-7 335-76-2 3830-45-3	生殖毒性和長期生物累積毒性 Due to their toxic for reproduction and persistent, bioaccumulative and toxic (PBT) properties
173	對(1,1-二甲基丙基)苯酚 p-(1,1-dimethylpropyl)phenol	201-280-9	80-46-6	內分泌系統干擾 Due to its endocrine-disrupting properties for the environment.

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# Galaxy Technology Development Company 表單號碼:

(17)SVHC 第十七批清單(1 項)於 2017 年 07 月 14 日正式公佈,清單如下: Substances included in the Candidate List for authorization on 14 July 2017 and their SVHC properties:

	項目	物質名稱	EC NO.	CAS No.	主要用途
	Item	Substances		CAS No.	Purpose
		全氟己基磺酸及其鹽類 Perfluorohexane-1-sulphonic acid and its salts (PFHxS)	206-587-1	355-46-4	金屬電鍍工業、航空液壓油、半導
					體產業、防水表面處理劑等
	174				May be used as a plasticiser,
	174				lubricant, surfactant, wetting agent,
					corrosion inhibitor and in
					fire-fighting foams.

# (18)SVHC 第十八批清單 (7項)於 2018年 01 月 15 日正式公佈,清單如下: Substances included in the Candidate List for authorization on 15 January 2018 and their SVHC properties:

	and then Sylle properties.			
項目	物質名稱	EC NO.	CAS No.	主要用途
Item	Substances	EC NO. CAS NO.		Purpose
				通常非有意才產生·而是作為其他物質中的成分或雜質。
175	苯並[a]菲 Chrysene	205-923-4	218-01-9	Normally not produced intentionally
	Cinysciic	110		but rather occurs as a constituent or
				impurity in other substances.
				通常非有意才產生·而是作為其他
	苯並[a]蒽			物質中的成分或雜質。
176	本业[a] 是 Benz[a] anthracene	200-280-6	56-55-3	Normally not produced intentionally
				but rather occurs as a constituent or
		_		impurity in other substances.
		233-710-6	10325-94-7	用於實驗室化學品和生產玻璃、瓷
	硝酸镉 Cadmium nitrate			器和陶瓷製品。
177				Used for the manufacture of glass,
				porcelain and ceramic products and
				in laboratory chemicals.
				用於實驗室化學品和生產電氣、電
				子和光學設備。
178	氫氧化鎘	244-168-5	21041-95-2	Used for the manufacture of
176	Cadmium hydroxide			electrical, electronic and optical
				equipment and in laboratory
				chemicals.
	7 브 포슈 소급			用於 pH 調整劑和水處理產品、實
179	碳酸鎘 Cadmium carbonate	208-168-9	513-78-0	驗室化學品、化妝品和個人護理產
	Cadmium carbonate			品等產品中。

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				Used as a pH regulator and in water
				treatment products, laboratory
				chemicals, cosmetics and personal
				care products.
	十氯三環十八碳二烯			用作非增塑阻燃劑、用於密封劑以
	(包含任何順式與反式同分異構物或其他組成) Dechlorane plus (including any of its individual anti-and syn-isomers or any combination thereof)	-	13560-89-9 135821-74-8 135821-03-3	及粘合劑中的添加物。
180				Used as a non-plasticising flame
				retardant, used in adhesives and
				sealants and in binding agents.
	1,3,4-噻二唑-2,5-二巰酮、甲醛與支鏈和直鏈 4-庚基苯酚的反應產物			用於潤滑劑和潤滑油中的潤滑添
	(含有支鏈和直鏈 4-庚基苯酚重量比大於或等於 0.1%)  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]			加劑。
181		-	-	Used as a lubricant additive in
				lubricants and greases.

# (19)SVHC 第十九批清單(10 項)於 2018 年 06 月 27 日正式公佈,清單如下: Substances included in the Candidate List for authorization on 27 June 2018 and their SVHC properties:

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項目 Item	物質名稱 Substances	EC NO.	CAS No.	主要用途 Purpose	
182	八甲基環四矽氧烷 Octamethylcyclotetrasiloxane (D4)	209-136-7	556-67-2	化妝品和個人護理產品·拋光劑和 蠟·洗滌和清潔產品以及紡織品處	
183	十甲基環五砂氧烷 Decamethylcyclopentasiloxane (D5)	208-764-9	541-02-6	理劑和染料。 Used in washing and cleaning	
184	十二甲基環六矽氧烷 Dodecamethylcyclohexasiloxane (D6)	208-762-8	540-97-6	products, polishes and waxes, cosmetics and personal care products, textile treatment products and dyes.	
185	針 Lead	231-100-4	7439-92-1	用於金屬、焊接和焊錫產品·金屬 表面處理產品和聚合物。 Used in metals, welding and soldering products, metal surface treatment products, and polymers.	
186	八硼酸二鈉 Disodium octaborate	234-541-0	12008-41-2	玻璃、油漆和塗料、纖維素絕緣材料、水泥、肥料。 Used in anti-freeze products, heat transfer fluids, lubricants and greases, and washing and cleaning products.	
187	苯并[g,h,I]芘 Benzo[ghi]perylene	205-883-8	191-24-2	通常不是有意生產·而是存在於其 他物質的成分或雜質。 Normally not produced intentionally but rather occurs as a constituent or impurity in other substances.	
188	乙二胺 Ethylenediamine (EDA)	203-468-6	107-15-3	用於粘合劑與密封劑、塗料產品、 填充料、油灰、石膏、造型粘土、	

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				pH 調節劑和水處理產品。 Used in adhesives and sealants, coating products, fillers, putties, plasters, modelling clay, pH regulators and water treatment
189	氫化三聯苯 Terphenyl hydrogenated	262-967-7	61788-32-7	products. 在塑料中添加劑、塗料/油墨成分、粘合劑/密封劑成分。 Used as a plastic additive, solvent, in coatings/inks, in adhesives and sealants, and heat transfer fluids.
190	偏苯三酸酐 Benzene-1,2,4-tricarboxylic acid 1,2-anhydride (trimellitic anhydride; TMA)	209-008-0	552-30-7	作為優良的耐熱性、耐候性增塑劑 的原料、環氧樹脂的固化劑。 Used in the manufacture of esters and polymers.
191	鄰苯二甲酸二環己酯 Dicyclohexyl phthalate (DCHP)	201-545-9	84-61-7	可塑劑、界面活性劑。 Used in plastisol, PVC, rubber and plastic articles. A further use is also as a phlegmatiser and dispersing agent for formulations of organic peroxides.

# (20)SVHC 第 20 批清單 (6 項)於 2018年 09 月 6 日正式公佈,清單如下: Substances included in the Candidate List for authorization on 6 September 2018

and their SVHC properties:

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項目	物質名稱	EC NO.	CAS No.	主要用途
Item	Substances	EC NO.	CAS No.	Purpose
192	1,7,7-三甲基-3-(苯亞甲基)雙環[2,2,1]庚烷-2-酮 (3-苯亞甲基樟腦) 1,7,7-trimethyl-3-(phenylmethylene) bicyclo[2.2.1]heptan-2-one (3-benzylidene camphor)	239-139-9	15087-24-8	用於防曬化妝品的 UV 吸收劑·紡織品的抗 UV 添加劑。
193	2,2-雙(4'-羥基苯基)-4-甲基戊烷 2,2-bis(4'-hydroxyphenyl)-4-methylpentane	401-720-1	203-772-9	用於熱感紙·BPA 替代物。 Used in polymers, thermal printing paper, other minor uses include drugs/biocides, surface coatings, inks & adhesives.
194	苯并[k]荧蒽 Benzo[k]fluoranthene	205-916-6	207-08-9	非刻意生產物質·存在於煤或石油 等分餾物的 UVCB 物質·這些
195	荧蒽 Fluoranthene	205-912-4	206-44-0 93951-69-0	UVCB 物質可用於塗料、橡膠、道路和潤滑劑。
196	菲 Phenanthrene	201-581-5	85-01-8	Used in coatings and paints, road and construction application, in
197	芘 Pyrene	204-927-3	129-00-0 1718-52-1	binders or release agents, also in lubricants and cleaning agents

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# (21)SVHC 第 21 批清單 (4 項)於 2019年 07月 16日正式公佈,清單如下: Substances included in the Candidate List for authorization on 16 July 2019 and

their SVHC properties:

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項目	物質名稱	EC NO.	CAS No.	主要用途
Item	Substances	EC NO.	CAS No.	Purpose
198	2-甲氧基乙酸乙酯 methoxyethyl acetate	203-772-9	110-49-6	溶劑、加工助劑、半導體、紡織印刷、油漆等     Solvents, processing aids, semiconductors, textile printing, paints, etc.
199	三(4-王基苯基·支鍊和直鏈)亞磷酸酯(TNPP) (4-王基酚 4-NP·支鍊和直鏈 濃度≥0.1%重量比) Tris (4-nonylphenyl, branched and linear) phosphite (TNPP) with ≥ 0.1% w/w of 4-nonylphenol, branched and linear (4-NP)	-		聚合物抗氧化劑、UV 安定劑、建 築材料、窗簾、油漆、黏合劑等 Primarily used as an antioxidant to stabilise polymers.
200	2,3,3,3-四氟-2- (七氟丙氧基)丙酸·即其鹽類與鹵化醯類 (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 (covering any of their individual isomers and combinations thereof)			PFOA 的替代物、含氟聚合物助劑、纜線和 PTFE 塗層。 Processing aid in the production of fluorinated polymers
201	4-叔丁基苯酚 4-tert-butylphenol	202-679-0	98-54-4	用於產品塗料、聚合物、粘合劑、 密封劑和合成其他物質。 Used in coating products, polymers, adhesives, sealants and for the synthesis of other substances.

#### (22)SVHC 第 22 批清單 (4 項)於 2020年 01月 16日正式公佈,清單如下:

Substances included in the Candidate List for authorization on 16 January 2020

and their SVHC properties:

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項目	物質名稱	EC NO.	CAS No.	主要用途
Item	Substances	EC NO.	CAS No.	Purpose
202	2-苄基-2-二甲基氨基-1- (4-嗎啉苯基)丁酮 2-benzyl-2-dimethylamino- 4'-morpholinobutyrophenone	404-360-3	119313-12-1	製造透過 UV 固化的速乾油墨、密 封劑、黏膠等
203	2-甲基-1-[4-(甲基硫代)苯基] -2-(4-嗎啉基)-1-丙酮 2-methyl-1-(4-methylthiophenyl)- 2-morpholino propan-1-one	400-600-6	71868-10-5	The substance is used in polymer production
204	二異己基鄰苯二甲酸酯 Diisohexyl phthalate	276-090-2	71850-09-4	密封劑、聚合物中的可塑劑 Sealants, plasticizers in polymers
205	全氟丁烷磺酸及其鹽類 Perfluorobutane sulfonic acid (PFBS) and its salts			在聚合物生產和化學合成中當作 催化劑/添加劑/反應物; 也用作聚 碳酸酯的阻燃劑(用於電子設備) Used as a catalyst/ additive/reactant in polymer manufacture and in chemical synthesis. It is also used as

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	a flame retardant in polycarbonate
	(for electronic equipment).

# (23)SVHC 第 23 批清單 (4 項 ) 於 2020 年 06 月 29 日正式公佈,清單如下: Substances included in the Candidate List for authorization on 29 June 2020 and their SVHC properties:

項目	物質名稱			主要用途
Item	Substances	EC NO.	CAS No.	Purpose
206	1-vinylimidazole 1-乙烯基咪唑	214-012-0	1072-63-5	聚合反應之單體和中間體、漆料、表面處理劑、清潔劑等 Polymerization monomers and intermediates, paints, surface treatment agents, cleaning agents, etc.
207	2-methylimidazole 2-甲基咪唑	211-765-7	693-98-1	催化劑、起始劑、顏料、農藥、聚合反應之促進劑和環氧樹脂固化劑等 Catalysts, starters, pigments, pesticides, polymerization accelerators and epoxy curing agents, etc.
208	Butyl 4-hydroxybenzoate 4-羥基苯甲酸丁酯	202-318-7	94-26-8	用於化妝品、保養品、藥品或做為 熱力/壓力傳遞之介質 Used in cosmetics, skin care products, medicines or as a heat/pressure transmission medium
209	Dibutylbis (pentane-2,4-dionato-O,O')tin 二丁基雙(2,4-戊二酸根合-O,O') 錫	245-152-0	22673-19-4	和菌劑、木材防腐劑、農藥、穩定劑、催化劑、黏著劑、鞋及紡織品的防臭劑 Bacteriostatic agents, wood preservatives, pesticides, stabilizers, catalysts, adhesives, deodorants for shoes and textiles

# (24)SVHC 第 24 批清單 ( 2 項 ) 於 2021 年 01 月 20 日正式公佈,清單如下: Substances included in the Candidate List for authorization on 20 January 2021 and their SVHC properties:

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項目	物質名稱	EC NO.	CAS No.	主要用途
Item	Substances	EC NO.	CAS No.	Purpose
210	s(2-(2-methoxyethoxy) ethyl) ether 雙(2-(2-甲氧基乙氧基)乙基)醚	205-594-7		用於生產塗料、 粘合劑的溶劑、 助焊劑溶劑、應用於 HFC/CFC 潤 滑劑、鋰電池等。 Used in the production of coatings, adhesives, flux solvents, used in HFC/CFC lubricants, lithium batteries, etc.

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			塑料或橡膠的穩定劑或觸媒·粘合	i
			劑、密封劑、塗料、油漆以及稀釋	i
			劑的原料・補土、金屬表面與非金	ì
	Dioctyltin dilaurate, stannane, dioctyl-, bis(coco acyloxy) derivs., and any other		屬表面處理產品,用於布料、紡織	i
	stannane, dioctyl-, bis(fatty acyloxy) derivs. wherein C12 is the predominant		品和皮革的生產流程。	i
	carbon number of the fatty acyloxy moiety		Stabilizers or catalysts for plastics	i
211	二月桂酸二辛基錫·錫烷·二辛基·	 	or rubber, raw materials for	i
	雙(椰油醯氧基)衍生物,以及任何其他錫烷,二辛基,雙(脂肪醯氧基)衍生		adhesives, sealants, coatings, paints	i
	物。其中 C12 為脂肪醯氧基部分的主要碳原子數		and thinners, soil filling, metal	ì
	77 关于 012 例如加加血中至177 的工文 (() () ()		surface and non-metal surface	ì
			treatment products, used in the	ì
			production process of cloth, textiles	ì
			and leather.	

# (25)SVHC 第 25 批清單 (8 項)於 2021年 07月 09 日正式公佈,清單如下: Substances included in the Candidate List for authorization on 09 July 2021 and

their SVHC properties:

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項目 Item	物質名稱 Substances	EC NO.	CAS No.	主要用途 Purpose
212	2-(4-tert-butylbenzyl) propionaldehyde and its individual stereoisomers 2-(4-叔丁基苄基)丙醛及其各自立體異構物	4 - )	-	聚合中間體、清潔劑、殺菌劑、空 氣清淨劑、香精等
213	Orthoboric acid, so <mark>dium salt</mark> 硼酸鈉鹽	237-560-2	13840-56-7	防腐劑、抗腐蝕劑
214	2,2-bis(bromomethyl)propane1,3-diol (BMP) 2,2-雙(溴甲基)-1,3-丙二醇 2,2-dimethylpropan-1-ol, tribromo derivative / 3-bromo-2,2-bis(bromomethyl)-1-propanol (TBNPA)	221-967-7 253-057-0	3296-90-0 36483-57-5/ 1522-92-5	阻燃劑、發泡中間體、塑膠聚合反 應物、反應性加工助劑
	3-溴-2,2-雙(溴甲基)-1-丙醇 2,3-dibromo-1-propanol (2,3-DBPA) 2,3-二溴-1-丙醇	202-480-9	96-13-9	(R)
215	Glutaral 戊二醛	203-856-5	111-30-8	殺菌劑、防腐劑、滅火劑、消泡劑、 清潔劑等
216	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] 中鏈氯化石蠟[UVCB 物質·含量大於或等於 80%碳鏈長度在 C14 至 C17 範圍內的直鏈氯代烷烴]		1	PVC 塑膠、密封膠、橡膠和紡織品中的阻燃劑和二次增塑劑;冷卻劑中的添加劑·以及機械和金屬產品製造中的潤滑劑等
217	Phenol, alkylation products (mainly in para position) with C12-rich branched or linear alkyl chains from oligomerisation, covering any individual isomers and/or combinations thereof (PDDP) 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	-	-	潤滑油和燃料添加劑·以及印刷油 墨、 油漆和塗料的中間體與酚醛 樹脂單體等
218	1,4-dioxane 1,4-二氧六環	204-661-8	123-91-1	生產用於食品、化妝品、農業/獸醫和各種工業應用化學品的殘留物,例如清潔劑、介面活性劑、溶劑、表面處理劑等

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219	4,4'-(1-methylpropylidene) bisphenol; (bisphenol B)	201-025-1	77-40-7	用於製造酚醛和聚碳酸酯樹脂、農
219	雙酚 B	201-023-1	/ / -40- /	藥、 染料

# (26)SVHC 第 26 批清單 (4 項)於 2022 年 01 月 18 日正式公佈,清單如下:

Substances included in the Candidate List for authorization on 18 January 2022

and their SVHC properties:

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項目 Item	物質名稱 Substances	EC NO.	CAS No.	主要用途 Purpose
Item				1
220	6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol (DBMC)	204-327-1	119-47-1	橡膠、潤滑劑、粘合劑、油墨、燃
220	6,6'雙二叔丁基-2,2'-亞甲基雙對甲酚			料
	tris(2-methoxyethoxy) vinylsilane	213-934-0	1067-53-4	橡膠、塑料、密封劑
221	三(2-甲氧基乙氧基)乙烯基矽烷			·
	,			/L 4# □
	(±)-1,7,7-trimethyl-3-[(4-methylphenyl) methylene] bicyclo[2.2.1]heptan-2-one	-	-	化妝品
222	covering any of the individual isomers and/or combinations thereof (4-MBC)			
222	(±)-1,7,7-三甲基-3-[(4-甲基苯基)亞甲基] <mark>二環[2.2.1]庚烷-2-酮</mark> ·包括各個異			
	横體和/或其組合			
	S-(tricyclo(5.2.1.02,6)deca-3-en-8(or 9)-yl O-(isopropyl or isobutyl or	401-850-9	255881-94-8	潤滑劑、潤滑脂
		401-830-9	233881-94-8	1月  11  11  11  11  11  11  11  11  1
223	2-ethylhexyl) O-(isopropyl or isobutyl or 2-ethylhexyl) phosphorodithioate			
	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			
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# (27)SVHC 第 27 批清單 (1 項)於 2022 年 06 月 10 日正式公佈,清單如下:

Substances included in the Candidate List for authorization on 10 June 2022 and their SVHC properties:

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	項目	物質名稱	EC NO.	CAS No.	主要用途
	Item	Substances			Purpose
	224	N-(hydroxymethyl)acrylamide N-(羥甲基)丙烯醯胺	213-103-2	924-42-5	聚合單體、丙烯酸氟烷基酯共聚物、油漆/塗料

# (28) SVHC 第 28 批清單 (9 項)於 2023 年 01 月 17 日正式公佈·清單如下:

Substances included in the Candidate List for authorization on 10 January 2023 and their SVHC properties:

	<u> </u>			
項目	物質名稱	EC NO.	CAS No.	主要用途
Item	Substances	EC NO.	CAS No.	Purpose
225	1,1'-[ethane-1,2-diylbisoxy] bis [2,4,6-tribromobenzene] 1,2-二(2,4,6-三溴苯氧基)乙烷	253-692-3	37853-59-1	作為 ABS、HIPS、熱塑性塑膠和 紡織品中的添加型阻燃劑; 作為電 子電氣設備的熱穩定劑; 作為建築 材料窗框周圍的密封劑。
226	2,2',6,6'-tetrabromo-4,4'-isopropylidenediphenol 四溴雙酚 A	201-236-9	79-94-7	主要作為印刷電路板中的反應型 阻燃劑·用來生產具阻燃環氧樹脂、聚碳酸酯樹脂;用於電子電氣 設備的熱塑性塑膠組件及紡織品

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				的添加型阻燃劑。
227	4,4'-sulphonyldiphenol 雙酚 S	201-250-5	80-09-1	用於生產熱感紙;用於生產 PESU 塑膠的單體;用於生產合成鞣劑的 單體;用於皮革製品及回收紙。
228	Barium diboron tetraoxide 偏硼酸鋇	237-222-4	13701-59-2	用於油漆塗料;用於卡車 PVC 膜 塗層和電線塗層。
229	Bis(2-ethylhexyl) tetrabromophthalate covering any of the individual isomers and/or combinations thereof 3,4,5,6-四溴-1,2-苯二羧酸雙(2-乙基己基)酯·包括包括任何單獨的異構體 和/或其組合	-	-	用於橡膠和塑料的生產;用於電線電纜絕緣材料、薄膜和片材、地毯 背襯、塗層織物、牆面覆蓋物及粘 合劑的阻燃劑和可塑劑;用於密封 劑和密封產品。
230	Isobutyl 4-hydroxy benzoate 4-羥基苯甲酸 2-甲基丙酯	224-208-8	4247-02-3	用於塗料產品、填料、補土、石膏、 建模粘土、油墨和調色劑;用於混 合物和化學品生產。
231	Melamine 三聚氰胺	203-615-4	108-78-1	作為各種聚合反應的起始原料·主要用於甲醛樹脂的生產。用於其他三聚氰胺衍生物的生產·此類衍生物可用作阻燃劑和膨脹型(防火)塗料;用於聚氨酯泡綿、橡膠、熱固性塑料以及膨脹型(防火)塗料的阻燃劑。
232	Perfluoroheptanoic acid and its salts 全氟庚酸及其鹽	- ]		可用作潤濕劑、分散劑、乳化劑和 發泡劑。
233	reaction mass of 2,2,3,3,5,5,6,6-octafluoro -4-(1,1,1,2,3,3,3-heptafluoropropan-2-yl) morpholine and 2,2,3,3,5,5,6,6-octafluoro -4-(heptafluoropropyl) morpholine 2,2,3,3,5,5,6,6-八氟-4-(1,1,1,2,3,3,3-七氟丙烷-2-基)嗎啉和 2,2,3,3,5,5,5,6,6-八	473-390-7		用作實驗室試劑和工業功能性流 體。

# (29) SVHC 第 29 批清單 ( 2 項 ) 於 2023 年 06 月 14 日正式公佈,清單如下: Substances included in the Candidate List for authorization on 14 June 2023 and

their SVHC properties

IJ	頁目	物質名稱	EC NO.	CACN	主要用途
It	tem	Substances	EC NO.	CAS No.	Purpose
2	234	Diphenyl(2,4,6-trimethylbenzoyl) phosphine oxide 二苯基(2,4,6-三甲基苯甲醯基)氧化膦	278-355-8	75980-60-8	油墨和碳粉、塗料產品、光化學製品、聚合物、粘合劑和密封劑,以 及填料、油灰、石膏、造型粘土
2	235	Bis(4-chlorophenyl) sulphone 雙(4-氯苯基)碸	201-247-9	80-07-9	製造化學品(醫藥、農藥、染料等)、 塑料製品(聚碸、聚醚碸等工程塑料)和橡膠製品

文件編號: 2030-01-M



Galaxy	Technology	y Development Company
	表 留 號 碼・	

(30) SVHC 第 30 批清單 (5 項 ) 於 2024 年 01 月 29 日正式公佈,清單如下: Substances included in the Candidate List for authorization on 29 January 2023 and their SVHC properties

項目	物質名稱	EGNO	CACN	主要用途
Item	Substances	EC NO.	CAS No.	Purpose
226	2,4,6-tri-tert-butylphenol	211-989-5 732-26-3		化學工業用中間體/反應物;用於
236	2,4,6-三叔丁基苯酚		732-20-3	燃料中的穩定劑
225	2-(2H-benzotriazol-2-yl)-4-(1,1,3,3-tetramethylbutyl) phenol (UV-329)2-[2-羥	221 572 5	2147.75.0	用於塑膠、塗料、黏著劑,以及密
237	基-5-(1,1,3,3-四甲丁基)苯基]苯並三唑	221-573-5	3147-75-9	封劑的紫外光吸收劑
	2-(dimethylamino)-2-[(4-methylphenyl)methyl]-1-[4-(morpholin-4-yl)phenyl]	120 240 0	119344-86-4	用於墨水、塗料、印刷的 UV 引發
238	butan-1-one 2-(二甲基氨基)-2-[(4-甲苯基)甲基]-1-[4-(4-嗎啉代)苯基]-1-丁酮	438-340-0		劑
220	Bumetrizole (UV-326);2-tert-butyl-6-(5-chloro-2H-benzotriazol-2-yl)-4-	223-445-4 3896-11-	3896-11-5	用於塑膠、塗料、黏著劑,以及密
239	methylphenol 2-叔丁基-6-(5-氯-2H-苯並三唑-2-基)-4-甲基苯酚	223-443-4	3890-11-3	封劑的紫外光吸收劑
	Oligomerisation and alkylation reaction products of 2-phenylpropene and phenol 2-苯基丙烯與苯酚的低聚和烷基化反應產物			用於聚合物、粘合劑、密封劑、塗
		700-960-7		料、填料、補土、油墨中。 用於
240				電氣、電子和光學設備及塑料製
				品。 用於洗滌劑、油漆和塗料、
				香料和空氣清新劑。



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