

原材料管制物質規範

Raw Material' s Hazardous Substances Criteria

ECS-001, Version 11

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敬愛的供應商

永光化學一直致力於開發環境友善的化學品，我們了解透過運用好的化學知識，才能實現更好的生活願景及邁向永續的未來。為了提供安全可靠、品質優良的產品，我們意識到必須透過原料供應鏈所有的合作夥伴和我們共同努力承擔相應的職責才能實現我們的目標，因此，基於源頭控制和追溯的目的，永光化學要求所有的供應商了解本手冊中所制定的相關標準和世界各國法規限制使用的受限物質，在此誠摯地期待您的理解與合作。

Dear Suppliers,

Everlight Chemical are committed to the development of environmentally friendly chemicals, and we understand that through the use of good chemistry knowledge will achieve a better life and towards a sustainable future. In order to provide safe, reliable and high quality products, we realize that we can achieve the goal only through working together with all of raw material supplier and bear the corresponding responsibilities. Therefore, based on source control and traceability, Everlight Chemical requires all suppliers to understand the relevant standards and the restricted substances set forth in this manual and regulated by national laws and regulations. We sincerely look forward to your understanding and cooperation.

供應商的責任

永光化學的產品需滿足各國法規，品牌商規範與相關協會之要求(REACH, RoHs, Oeko Tex Std 100, ZDHC 簽約品牌, ETAD, Bluesign …)，因此將不定期更新本手冊，供應商有責任審查和遵守所有更新，並允許永光化學在正常工作時間內對供應商進行稽核作業。供應商必須確保提供給永光化學的最終產品與其製程，須滿足本手冊的要求，如果發現提供之產品含有本手冊禁止或限制使用的物質，務必儘速通知永光化學，否則應對永光化學所遭受的進一步損失和損害承擔責任。

Supplier Responsibilities

Everlight Chemical's products need to meet national regulations, the requirements of brands and retailers and related associations (such as REACH, RoHs, Oeko Tex Std 100, ZDHC signatory brands, ETAD, bluesign, etc.), therefore we shall update this manual irregularly and it is the responsibility of the suppliers to review and comply with all updates and to allow we audit suppliers during normal business hours. The suppliers must ensure that the final product and manufacture process are conform to the requirements of this manual. Please notify us immediately, if your chemical product contain prohibited or restricted substances in this manual, otherwise shall be liable to further losses and damages by Everlight Chemical.

Better Chemistry Better Life

「成為對人類有貢獻的高科技化學企業集團」是永光化學的願景，我們具體承諾「更用心的化學，更美好的生活」，並且確信，用對的化學品，可以讓生活更美好！同時，我們專注本業，以永續經營的角度，重視生態效益，落實公司治理，參與社會公益，期能兼顧各利害關係人的利益，希望我們的努力，可以改變世界，為人類帶來福祉。讓我們為美好的未來一起努力！

“Being a high-tech chemical enterprise and making concrete contribution to human beings” is our vision. Everlight Chemical specifically commit ourselves to "Better Chemistry Better Life" and to be sure that with using right chemicals that can make life better. In the meantime, we have concentrated on our core business, maintained the principle of sustainable management, emphasized eco-efficiency, improved corporate governance, and participated in social welfare work. We hope through our efforts can change the world and bring happiness to people. Let us work together for a better future!

Better Chemistry Better Life

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有害物質管制項目與管制標準 Hazardous Substances Criteria

1. 衝突礦產 Conflict Minerals

有害物質 Hazardous Substance	化學文摘編號 CAS No.	管制標準 Criteria
1 鈹 Tantalum	7440-25-7	N.D.
2 錫 Tin	7440-31-5	N.D.
3 鎢 Tungsten	7440-33-7	N.D.
4 金 Gold	7440-57-5	N.D.

2. 電子設備中有害物質限制指令 RoHS (Restriction of the use of certain Hazardous Substances) DIRECTIVE 2011/65/EU & COMMISSION DELEGATED DIRECTIVE (EU) 2015/863

有害物質 Hazardous Substance	管制標準 Criteria	法規/ 檢測方法 Law/ Test method
1 鎘以及鎘化合物 Cadmium and Cadmium compounds	< 100 ppm	永光規範 Everlight' s criteria (RoHS Directive 2011/65/EU)
2 鉛以及鉛化合物 Lead and Lead compounds	< 1000 ppm	
3 汞以及汞化合物 Mercury and Mercury compounds	< 1000 ppm	
4 六價鉻化合物 Hexavalent Chromium compounds	< 1000 ppm	
5 多溴聯苯 (PBB) PolyBrominated Biphenyls	< 1000 ppm	
6 包含十溴聯苯醚 (DecaBDE)的多溴聯苯醚(PBDE) Polybrominated diphenylethers(PBDE) including decabromodiphenyl ether [DecaBDE]	< 1000ppm	
7 鄰苯二甲酸二(2-乙基己基)酯 (DEHP) Bis(2-ethylhexyl) phthalate	< 1000ppm	
8 鄰苯二甲酸丁酯苯甲酯 (BBP) Butyl benzyl phthalate	< 1000ppm	
9 鄰苯二甲酸二丁酯 (DBP) Dibutyl phthalate	< 1000ppm	
10 鄰苯二甲酸二異丁酯 (DIBP) Diisobutyl phthalate	< 1000ppm	

3. SONY 有關零部件和材料中的環境管理物質的管理規定 SONY SS-00259
請確認最新之資訊 please check the latest informaion
<http://www.sony.net/SonyInfo/procurementinfo/ss00259/>
4. 染顏料製造工業生態和毒理研究協會
Ecological and Toxicological Association of Dyestuffs manufacturing Industry (ETAD)
請確認最新之資訊 please check the latest informaion
<http://etad.com/en/publications/information-notices.html>
5. 國際環保紡織標準 Standard 100 by OEKO-TEX®
請確認最新之資訊 please check the latest informaion
https://www.oeko-tex.com/en/business/business_downloads/business_downloads.xhtml
6. 偶氮染料芳香胺 Aromatic Amines from Azo Dyes

有害物質 Hazardous Substance	化學文摘編號 CAS No.	管制標準 Criteria	法規/ 檢測方法 Law/ Test method
1 4-胺基聯苯 4-Aminobiphenyl	92-67-1	< 150 ppm	永光規範 Everlight' s criteria Ref: EC No. 552/2009 REACH Annex XVII (< 30 ppm in the articles or dye parts)
2 聯苯胺 Benzidine	92-87-5	< 150 ppm	
3 4-氯鄰甲苯胺；4-氯-2-甲基苯胺 4-Chloro-o-toluidine	95-69-2	< 150 ppm	
4 2-萘胺 2-Naphthylamine	91-59-8	< 150 ppm	
5 鄰氨基偶氮甲苯 o-Aminoazotoluene	97-56-3	< 150 ppm	
6 2-氨基-4-硝基甲苯 2-Amino-4-nitrotoluene	99-55-8	< 150 ppm	
7 4-氯苯胺 4-Chloroaniline (para-)	106-47-8	< 150 ppm	
8 2,4-二氨基苯甲醚 2,4- Diaminoanisole	615-05-4	< 150 ppm	
9 4,4'-二氨基二苯甲烷 4,4- Diaminobiphenylmethane	101-77-9	< 150 ppm	
10 3,3'-二氯聯苯胺 3,3' - Dichlorobenzidine	91-94-1	< 150 ppm	
11 3,3'-二甲氧基聯苯胺 3,3' -Dimethoxybenzidine	119-90-4	< 150 ppm	
12 3,3'-二甲基聯苯胺 3,3' -Dimethylbenzidine	119-93-7	< 150 ppm	
13 3,3'-二甲基-4,4'-二氨基二苯甲烷 3,3' Dimethyl-4,4' -diaminobiphenylmethane	838-88-0	< 150 ppm	
14 2-甲氧基-5-甲基苯胺 p-Cresidine	120-71-8	< 150 ppm	

15 4,4'-亞甲基-二(2-氯苯胺) 4,4' - Methylene-bis-(2-chloroaniline)	101-14-4	< 150 ppm
16 4,4'-二氨基二苯 醚	101-80-4	< 150 ppm
17 4,4'-二氨基二苯硫 醚	139-65-1	< 150 ppm
18 鄰-甲苯胺；2-甲苯胺 (SVHC) o- Toluidine	95-53-4	< 150 ppm
19 2,4-二氨基甲苯 2,4- Toluyldiamine	95-80-7	< 150 ppm
20 2,4,5-三甲基苯胺 2,4,5- Trimethylaniline	137-17-7	< 150 ppm
21 鄰-甲氧基苯胺；2-甲氧基苯胺 o-Anisidine (2-Methoxyaniline)	90-04-0	< 150 ppm
22 2,4-二甲基苯胺 2,4 - Xylidine	95-68-1	< 150 ppm
23 2,6-二甲基苯胺 2,6- Xylidine	87-62-7	< 150 ppm
24 4-氨基偶氮苯 (SVHC) 4-aminoazobenzene	60-09-3	< 150 ppm

7. 臭氧層破壞物質/溫室氣體 Ozone Depletion/ Greenhouse Gas

有害物質 Hazardous Substance	化學文摘編號 CAS No.	管制標準 Criteria	法規/ 檢測方法 Law/ Test method
1 臭氧層破壞物質(ODS) Ozone depleting substances (ODS)		N.D.	REGULATION (EC) No
2 氫氟碳化合物(HFC)、全氟化碳(PFC) Hydrofluorocarbon (HFC)、Perfluorocarbon (PFC)		N.D.	REGULATION (EC) No 842/2006

8. 雜項管制物質 Miscellaneous Items

有害物質 Hazardous Substance	化學文摘編號 CAS No.	管制標準 Criteria	法規/ 檢測方法 Law/ Test method
1 石棉 Asbestos		N.D.	EC No. 552/2009 REACH Annex XVII
2 甲醛；福馬林 Formaldehyde; formalin; formic aldehyde; formol	50-00-0	< 30 ppm	Directive 2002/72/EC
3 富馬酸二甲酯 Dimethyl fumarate (DMF)	624-49-7	< 0.1 ppm	Directive 2009/251/EC

特定鄰苯二甲酸鹽 Specific phthalates (DEHP、DBP、BBP、 4 DINP、DIDP、DNOP、DNHP、DIHP、 DHNUP、DMEP)		< 1,000 ppm	EC No. 552/2009 REACH Annex XVII
5 全氟辛烷磺酸；全氟辛基磺酸鉀(及其鹽) PFOS; Perfluorooctane sulfonates		<50 ppm	EC No. 552/2009 REACH Annex XVII
6 多氯三聯苯(PCTs) Polychlorinated terphenyls(PCTs)	61788-33-8	< 50 ppm	EC No. 552/2009 REACH Annex XVII
7 壬基酚 Nonylphenol (NP)	104-40-5	<1000 ppm	Directive 2003/53/EC
8 壬基酚聚乙氧基醇 Nonylphenol ethoxylane (NPEO)	9016-45-9 26027-38-3	<1000 ppm	
9 五氯酚及其酯類 Pentachlorophenol(PCP)	87-86-5	<1000 ppm	Directive 94/783/EC
10 多氯聯苯 Polychlorinated biphenyl (PCBs)	1336-36-3	25 ppm	永光規範 Everlight' s criteria Ref: Directive 96/769/EC 89/677/EEC

9. 高度關注物質 Substances of Very High Concern

有害物質 Hazardous Substance	管制標準 Criteria	法規/ 檢測方法 Law/ Test method
高度關注物質(SVHC)候選清單 Candidate list of Substances of Very High Concern	< 1000 ppm	Article 57 of the REACH Regulation Article 59(10) of the REACH Regulation

請確認最新之資訊 please check the latest informaion
<https://echa.europa.eu/candidate-list-table>

10. CMR 物質 Carcinogenic,Mutagenic or Toxic for Reproduction

有害物質 Hazardous Substance	管制標準 Criteria	法規/ 檢測方法 Law/ Test method
CMR 物質 Carcinogenic,Mutagenic or Toxic for Reproduction	ND	Article 15 of the Cosmetics Regulation 1223/2009

請確認最新之資訊 please check the latest informaion
https://ec.europa.eu/growth/sectors/cosmetics/products/cmr-substances_en

11. 有害化學品零排放計畫_生產限用物質清單 ZDHC_MRSL

請確認最新之資訊 please check the latest informaion

<http://www.roadmaptozero.com/programme/manufacturing-restricted-substances-list-mrsl-conformity-guidance/>

12. 藍標物質清單消費者安全限值 bluesign® system substances list (BSSL) Consumer safety limits

請確認最新之資訊 please check the latest informaion

<https://www.bluesign.com/industry/infocenter/downloads>

13. 美國成衣暨鞋類協會 The American Apparel & Footwear Association (AAFA RSL)

請確認最新之資訊 please check the latest informaion

https://www.aafaglobal.org/AAFA/Solutions_Pages/Restricted_Substance_List.aspx

14. 國際服飾和鞋類限用化學品管理小組 AFIRM Group (AFIRM RSL)

請確認最新之資訊 please check the latest informaion

<https://www.afirm-group.com/afirm-rsl/>

15. 全球汽車申報物質清單 Global Automotive Declarable Substance List (GADSL)

請確認最新之資訊 please check the latest informaion

<https://www.gadsl.org/>