

# bluesign® system substances list 物質清單 (BSSL) Consumer safety limits 消費者安全限值

Version 10.0 | September 15, 2019





## Content 目錄

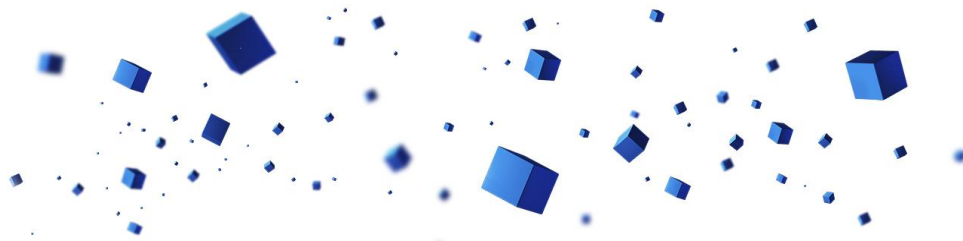
<b>1</b>	<b>Introduction 前言</b>	<b>4</b>
<b>2</b>	<b>Definitions 定義</b>	<b>4</b>
2.1	Accessory 配件	4
2.2	Article 製品	4
2.3	BSSL	4
2.4	CAS 化學品文摘號	4
2.5	Chemical substance 化學物質	5
2.6	Component 組成	5
2.7	Detection limit (DL) 檢出極限	5
2.8	Limit value 限值	5
2.9	Mixture 混合物	5
2.10	Monitoring 監控	5
2.11	Several 多個	5
2.12	Traces 痕量	5
2.13	Usage ban 禁用	6
2.14	Usage range 使用類別	6
<b>3</b>	<b>Testing methods 測試方法</b>	<b>7</b>
<b>4</b>	<b>Scope and validity 適用範圍和有效性</b>	<b>9</b>
4.1	Application 使用範圍	9
4.2	Validity 有效性	9
<b>5</b>	<b>Consumer safety limits and usage restrictions 消費者安全限值和限制</b>	<b>10</b>
5.1	Consumer safety limits 消費者安全限值	10
5.1.1	pH 限值	10
5.1.2	Odor 氣味	10
5.1.3	Sensitizing disperse dyes 致敏分散染料	10
5.1.4	Textiles dyed with disperse or metal complex dyes 使用分散染料或金屬絡合染料著色的紡織品	11
5.1.5	Color fastness to saliva and perspiration 唾液和汗漬牢度	11
5.1.6	Restrictions and bans for chemical substances 限用和禁用的化學物質	11
	Aldehydes 醛類	12
	Alkylphenols and Alkylphenolethoxylates 烷基酚和烷基酚聚氧乙烯醚	13
	Amines 胺類	15
	Arylamines (including corresponding salts) 芳香胺及其鹽	17
	Asbestos 石棉	20
	Biocides 殺菌劑	21
	Chlorinated Benzenes and Toluenes 氯代苯和氯代甲苯類	24
	Chlorinated Phenols 氯代苯酚	25

This document has been drafted in English and translated into Chinese for convenience only. In the event of discrepancy, the English version shall prevail.

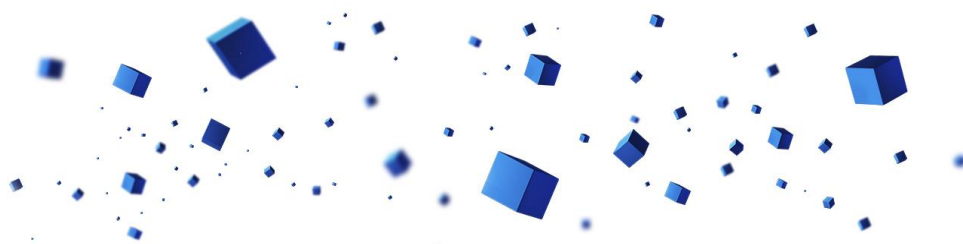
本文為英文編寫，為便於理解翻譯為中文。如中英文不一致時，以英文文本為準。

bluesign® system substances list 物質清單 (BSSL) | v10.0 | September 15, 2019

© bluesign technologies ag | www.bluesign.com



Colorants 著色劑	27
Dioxins and Furans 戴奧辛及呋喃	30
Flame Retardants 阻燃劑	31
Fluorinated Substances 氟化物	34
Glycols 乙二醇類	39
Greenhouse Gases, fluorinated 含氟溫室氣體	40
Halogenated Biphenyls, halogenated Terphenyls and halogenated Naphthalenes 鹵代聯苯, 鹵代三聯 苯和鹵代萘	41
Halogenated Diarylalkanes 鹵代雙環烷類	42
Isocyanates 異氰酸酯	43
Metals 金屬	44
Monomers 單體	52
Nitrosamines 亞硝胺類	55
Other Chemical Substances 其他化學物質	56
Ozone Depleting Substances 臭氧消耗物質	64
Pesticides 殺蟲劑	64
Plasticizers 塑化劑	65
Polyaromatic Hydrocarbons (PAHs) 多環芳香烴	67
Polymers 高分子聚合物	69
Solvents 有機溶劑	70
Tin-organic Compounds 有機錫化合物	76
UV stabilizers 紫外線穩定劑	77
5.2 Substances with usage restrictions but no consumer safety limits 限用但沒有限值的化學物質	78
<b>Annex I Compilation of single substances 附錄 I 各類別的限用物質匯總清單</b>	<b>80</b>
<b>Annex II Usage Ranges 附錄 II 使用類別</b>	<b>94</b>



## 1 Introduction 前言

The document specifies the limits for chemical substances in articles. It also defines usage bans for chemical substances prohibited from the manufacturing of articles.

It is important to know that due to quantity and range of listed substances and substance groups the consumer safety limits cannot be controlled by testing of articles alone and/or by confirmation declarations from suppliers (conventional RSL and/or testing approach).

This is the reason why the bluesign® SYSTEM integrates the up-stream parts of the manufacturing chain including chemical suppliers. Only an input-stream management with an appropriate network of bluesign® SYSTEM PARTNERS leads to comprehensive knowledge on chemical products and assures that restrictions and bans are achieved.

本物質清單闡述了製品裡各類化學物質的限值，及在製品生產過程中各類化學物質的禁用要求。

眾所周知，由於限用化學品物質的個數繁多以及種類差異，消費者安全限值無法僅僅依靠測試消費用品和/或供應商自我聲明得以有效控制。這就是 bluesign® system 整合包含化學品供應商在內的生產供應鏈的出發點。只有採用結合了 bluesign® system partners 合作夥伴網路的輸入流管理系統，才能更清楚地瞭解化學品，並確保限用及禁用的目標得以實現。

## 2 Definitions 定義

### 2.1 Accessory 配件

A component of a consumer product which is not classified as textile fabric (e.g. button, label, zipper, etc.)

消費品其中不歸類為紡織面料的組成部分（如：鈕扣、標籤、拉鍊等）

### 2.2 Article 製品

An object which during production is given a special shape, surface or design, which determines its function to a greater degree than does its chemical composition (fibers, textile fabrics, buttons, zippers, etc.).

通過生產被賦予特殊的形狀，外觀或設計，從而使其在原有的化學組分基礎上引申出更廣泛更豐富功能的一件物品（纖維、布料、鈕扣、拉鍊等）。

### 2.3 BSSL

*bluesign® system substances list (BSSL) Consumer safety limits.* A list that specifies consumer safety limits for chemical substances in articles. It also defines usage bans for chemical substances prohibited from the manufacturing of articles.

*bluesign® system 物質清單-消費者安全限值。* 本清單列出製品中可含化學物質的消費者安全限值，以及訂定禁止用於生產製品的化學物質的使用限制。

### 2.4 CAS 化學品文摘號

CAS registry numbers are unique numerical identifiers for chemical elements, compounds, polymers, biological sequences, mixtures and alloys. Chemical Abstracts Service (CAS), a division of the American Chemical Society, assigns these identifiers to every chemical that has been described in the literature. The intention is to make database searches more convenient, as chemicals often have many names. Almost all molecule databases today allow searching by CAS number.

CAS 化學品文摘號是對化學元素、化合物、聚合物、生物學序列、混合物和合金的一種獨特的數位識別碼。化學文摘社(CAS)是美國化學學會的一個部門，負責為每一個在文獻中有描述的化學品編上識別碼。由於化學品通常都有很多不同名稱，該識別碼可以令資料庫搜索時更便捷。迄今為止，幾乎所有的分子式資料庫都可以透過 CAS 化學品文摘號進行搜索。

This document has been drafted in English and translated into Chinese for convenience only. In the event of discrepancy, the English version shall prevail.

本文為英文編寫，為便於理解翻譯為中文。如中英文不一致時，以英文文本為準。

bluesign® system substances list 物質清單 (BSSL) | v10.0 | September 15, 2019

© bluesign technologies ag | www.bluesign.com



## 2.5 Chemical substance 化學物質

A chemical element and its compounds with constant composition and properties. It is defined by the CAS number.  
一種化學元素及其化合物，具有特定的化學成分和屬性，可用 CAS 化學品文摘號識別。

## 2.6 Component 組成

A part of an article that can be distinguished according to the material composition, the functionality and/or the color and is easily, mechanically separated from the other components.

製品中可單獨拆分的一部分，可根據材料、功能和/或顏色區分，可以用簡易的物理方法自其它組成中區別開來的部分。

## 2.7 Detection limit (DL) 檢出極限

The detection limit is the lowest quantity of a substance that can be distinguished from the absence of that substance following a prescribed analytical method.

檢出極限，是指採用某一特定的分析方法能夠檢測出樣品中待測物質的最低量。

## 2.8 Limit value 限值

The maximum amount of chemical substances permitted in articles for the usage ranges A, B and C.  
在使用類別 A、B 和 C 對應的製品裡化學物質的最大允許含量。

## 2.9 Mixture 混合物

A chemical product composed of two or more substances. It can be, for example, a colorant or an auxiliary.  
由兩種或多種物質組成的化學產品，例如：著色劑或助劑。

## 2.10 Monitoring 監控

For some chemical substances toxicological and/or ecological properties are not yet well defined. Therefore, the risk assessment is not complete. For some substances sufficient information on possible/typical contamination of articles and chemical products is not available now. Those substances are under observation. Exact restrictions will be defined as soon as more information exists. In cases where monitoring status is accompanied by a limit value, the limit value should be the goal.

對於某些化學物質，其毒理學特性和/或生態學特性仍未被人們完全所知，因此對它們的風險評估並不是完整的。某些化學物質在現階段尚未有充分關於在製品或化學品上的潛在/特定交叉污染等資訊，因此這些物質有待持續觀察。一旦有更多數據，將會立即制定準確的限用規定。若該物質同時在監控狀態及限值並存的情況下，應該執行並符合限值要求作為目標。

## 2.11 Several 多個

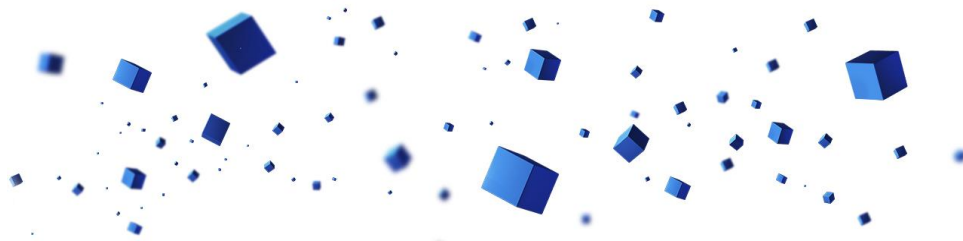
Several means, that the whole substance group is restricted although not all substances that are restricted are explicitly listed. The listed examples represent those substances which should be considered if substance group is intended for testing.

多個表示該整個物質組別都被限用，但不是所有該物質組別內被限用的物質都會逐一列出。本清單中所列出的屬於該物質組別的限用物質，當該物質組別涉及到檢測時，屬於需要包含在檢測內的限用物質。

## 2.12 Traces 痕量

Although there is a ban for a chemical substance, residual amounts of this substance may be contained in a product from a non-intended source. In this case, a limit is defined to minimize these currently unavoidable traces.

禁用的化學物質出於未知來源會以極其小量濃度殘留製品內。痕量即指對這些不可避免的殘留化學品制定的最小限值。



### 2.13 Usage ban 禁用

For several chemical substances or substance groups a usage ban is defined. For these substances or substance groups intentional use in manufacturing of articles is prohibited. That means that chemical products (e.g. colorants or textile auxiliaries) used for manufacturing of articles must not intentionally contain these substances or substance groups.

The aim of a usage ban is to avoid release of harmful substances to the environment and to avoid occurrence in the manufactured article by applying the precautionary principle.

某些化學物質或其同類被列為禁用，不得刻意用於生產製品中。即生產過程中使用的化學物質(如著色劑，紡織助劑等)不得刻意含有這些被禁用物質或其同類。禁用的目的就是通過預防措施阻止有害物質排放到環境中和殘留在製品內。

### 2.14 Usage range 使用類別

Usage ranges classify consumer goods according to their consumer safety relevance.

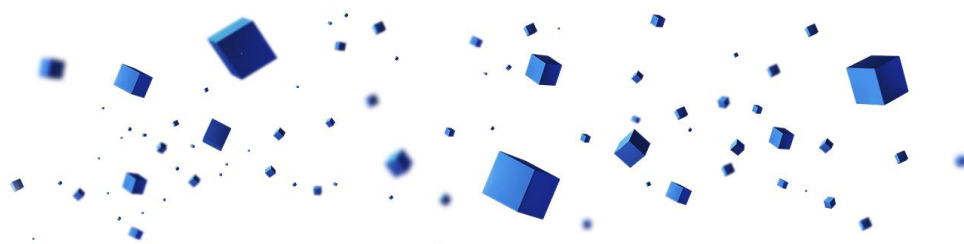
Three usage ranges (A, B, C) are defined with A being the most stringent category concerning limit values/bans:

使用類別是依據消費者安全要求對消費用品進行分類。使用類別分三類(A,B,C)，其中 A 類有最為嚴格的限值及禁用要求：

- Usage Range A: Next to skin use and baby articles (0 to 3 years)  
使用類別 A：緊貼皮膚類和嬰兒類(零至三歲)
- Usage Range B: Occasional skin contact  
使用類別 B：偶爾接觸皮膚類
- Usage Range C: No skin contact  
使用類別 C：不接觸皮膚類

Annex II lists common consumer goods and allocates usage ranges.

附錄 II 列出常用的消費用品及其對應的使用類別。



### 3 Testing methods 測試方法

The testing methods listed in the last column of the table in chapter 5 are the recommended ones. The testing methods column consists of two entries: sample preparation, e.g. extraction, digestion, derivatisation, and the test method, e.g. GC-MS, LC-MS, etc.

Depending on their availability international or national standards are also given for several substances and these methods may be applied. Other accredited methods can only be applied if it can be verified that equivalent results are obtained.

第 5 章每張表格的最後一列所列的測試方法，均為推薦的測試方法，包含測試樣製備比如萃取，分解，衍生等，和儀器分析方法比如 GC-MS, LC-MS, HPLC 等。引用的儀器分析方法，部分是國際標準或國家標準。除此以外的分析方法，需事先驗證測試結果是否等同後方可採用。

Details of the respective sample preparation methods can be found in the table below:

測試樣品製備列表如下：

Sample preparation 測試樣品製備	Solvent(s) 溶劑	Temperature (°C) 溫度(°C)	Time (min) 時間 (分鐘)	Other requirements 其他要求
Extraction with KOH 氫氧化鉀萃取	Potassium Hydroxide (1M) 氫氧化鉀 (1M)	90	12-15 小時	Derivatisation with Acetic anhydride 醋酸酐衍生法
Extraction with MeOH 甲醇萃取	Methanol 甲醇	70	60	Ultrasonic bath 超聲波萃取
Extraction with THF 四氫呋喃萃取	Tetrahydrofuran 四氫呋喃	40	60	
Extraction with DCM 二氯甲烷萃取	Dichloromethane 二氯甲烷	40	60	Ultrasonic bath 超聲波萃取
Extraction with MTBE 甲基叔丁基醚萃取	Methyl tert-butyl ether 甲基叔丁基醚	60	60	Ultrasonic bath 超聲波萃取
Extraction with water 去離子水萃取	Deionized water 去離子水			
Extraction with MeOH/Acetonitrile 甲醇/乙腈萃取	Methanol/Acetonitrile (1:1) 甲醇/乙腈(1:1)	70	30	Ultrasonic bath 超聲波萃取
Extraction with Potassium carbonate solution 碳酸鉀萃取	Potassium carbonate solution 碳酸鉀溶液	Room temp. 室溫	60	Ultrasonic bath 超聲波萃取
Extraction with THF/Acetone 四氫呋喃/丙酮萃取	Tetrahydrofuran/Acetone 四氫呋喃/丙酮	60	60	Ultrasonic bath, derivatization with Acetonitrile 超聲波萃取，乙腈 衍生法
Extraction with Acetone 丙酮萃取	Acetone 丙酮	70	60	Ultrasonic bath 超聲波萃取

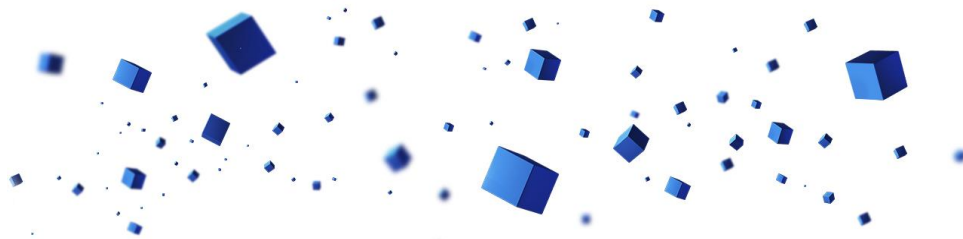
This document has been drafted in English and translated into Chinese for convenience only. In the event of discrepancy, the English version shall prevail.

本文為英文編寫，為便於理解翻譯為中文。如中英文不一致時，以英文文本為準。

bluesign® system substances list 物質清單 (BSSL) | v10.0 | September 15, 2019

© bluesign technologies ag | www.bluesign.com

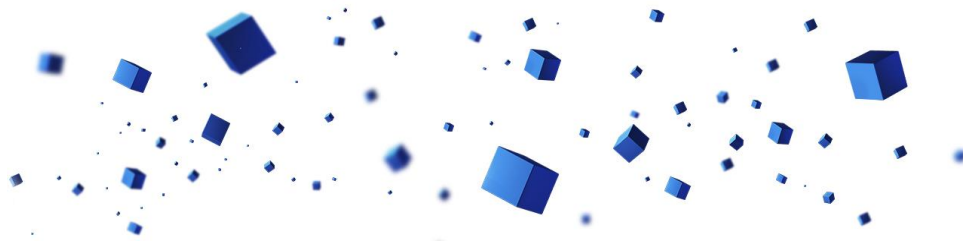




Extraction with Hexane/Dichloroethane 己烷/二氯乙烷萃取	Hexane/Dichloroethane 己烷/二氯乙烷	70	60	
ASE - Accelerated Solvent Extraction 加即溶劑萃取	Acetone/Hexane (1:1) 丙酮/己烷(1:1)	100	-	
ASE - Accelerated Solvent Extraction 加即溶劑萃取	Ethyl acetate 乙酸乙酯	40	-	
Soxhlet Extraction 索氏萃取	Acetone/Hexane (1:1) 丙酮/己烷(1:1)	-	480	
Headspace 頂空進樣	-	120	45	
DIN EN ISO 105-E04 (2013)	Acidic sweat solution 酸性汗漬溶液	37	60	Textile to liquor ratio 1:50 浴比 1:50

For headspace measurements a purge & trap gas chromatography is recommended.  
頂空進樣檢測, 建議採用吹掃捕集氣相色譜法。





## 4 Scope and validity 適用範圍和有效性

The document specifies restrictions (limits and bans) for chemical substances in  
本物質清單對化學物質的限用規定(限值和禁用)適用於:

- articles made of textile and leather  
以紡織面料和皮革製成的製品
- accessories for textile and leather articles  
用於紡織製品和皮革製品的配件

### 4.1 Application 使用範圍

The limits and restrictions have to be applied for each individual component of an article.

A component is each part of an article that can be distinguished according to the material composition and/or functionality and/or color and is easily mechanically separated from other components.

半成品或成品的每個單一組成都必須符合限用規定。單一組成是指一件製品裡的不同部分，可根據材料類別、和/或功能、和/或顏色，可以簡單地以物理方法與其他組成區別開來的部分。

### 4.2 Validity 有效性

This document comes into effect from July 1, 2019. It replaces the *bluesign® system substances list (BSSL) Consumer safety limits, version 9.0* from July 1, 2018.

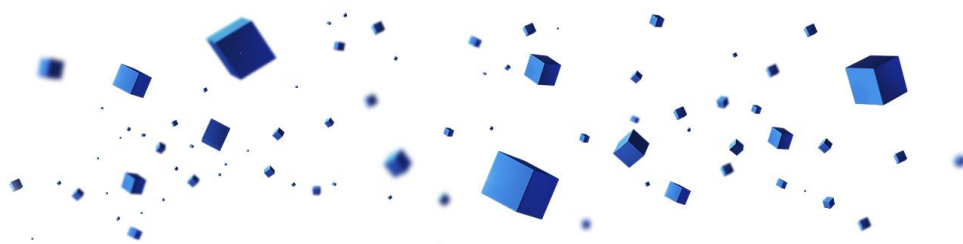
For all bluesign® SYSTEM PARTNERS the implementation of the revised sections (new substances marked grey), unless stated otherwise, shall take place by July 1, 2020 at the latest.

This document is revised annually and in line with the latest legislation and research and supported by opinions of the bluesign® SYSTEM PARTNER experts.

本物質清單於 2019 年 07 月 01 日生效執行，同時取代 2018 年 07 月 01 日 9.0 版本。

所有 bluesign® system partners 應不遲於 2020 年 07 月 01 日執行增改的章節。

本文件根據最新的法規、研究及 bluesign® 合作夥伴的回饋每年更新一次。



## 5 Consumer safety limits and usage restrictions 消費者安全限值和限制

Section **Error! Reference source not found.** informs on all consumer safety limits and restrictions.

Section 0 lists additional substances which are either not relevant concerning consumer safety aspects, or which are normally not to be found as residues in the articles (due to the fact that they are used in very early manufacturing steps) but their use is banned or restricted under the bluesign® SYSTEM.

Annex I lists single substances belonging to groups: asbestos, chlorinated benzenes and toluenes, colorants which can cleave into carcinogenic amines, dioxins and furans, fluorinated greenhouse gases, ozone depleting substances and pesticides.

Annex II details the usage ranges applicable under the bluesign® SYSTEM and how they classify consumer goods according to their consumer safety relevance.

第 5.1 節詳細闡述消費者安全限值和限制。

第 5.2 節概述與消費者安全不直接相關但是在 bluesign® system 列為禁用或限用的化學物質，這些化學物質只用在最初的生產工序中，通常不會在消費用品中殘留。

附錄 I 列出各類別的限用物質：石棉類，氯代苯和氯代甲苯，可裂解致癌芳香胺的著色劑，戴奧辛和呋喃，含氟溫室氣體，臭氧消耗物質和殺蟲劑。

附錄 II 闡述 bluesign® system 體系內的使用類別，並依據消費者安全相關度，對消費用品進行劃分。

### 5.1 Consumer safety limits 消費者安全限值

Besides the restrictions and bans for chemical substances mentioned in section 5.1.6 the restrictions defined in the sections 5.1.1 to 5.1.5 are in force.

除了第 5.1.6 節列出的限用及禁用的化學物質外，第 5.1.1 節至第 5.1.5 節所列出的化學物質限制同等有效。

#### 5.1.1 pH 限值

Test method: ISO 3071 (2005) (non-leather products), ISO 4045 (2008) (leather products)

Range: 4.0 to 7.5 (non-leather products), 3.5 to 7.5 (leather products)

測試方法: ISO 3071 (2005) (非皮革產品), ISO 4045 (2008) (皮革產品)

限值: 4.0 - 7.5 (非皮革產品), 3.5 - 7.5 (皮革產品)

#### 5.1.2 Odor 氣味

No unpleasant odor shall be emitted from the products.

Test method: SNV 195 651

產品不得釋放令人不愉快的氣味。

測試方法: SNV 195 651

#### 5.1.3 Sensitizing disperse dyes 致敏分散染料

Disperse dyes (mainly used in PES dyeing) which are sensitizing and classified with the risk phrase H 317 are not allowed for the usage range A.

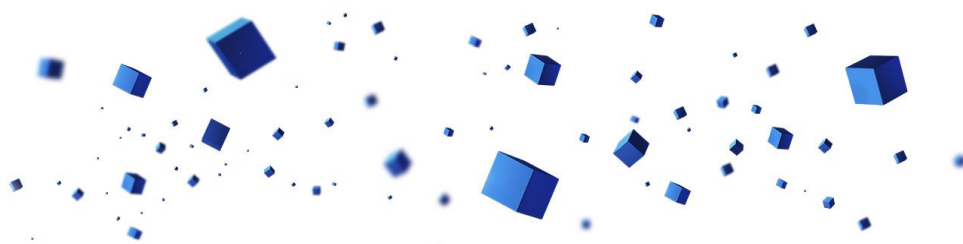
危險品代碼 R 43/H 317 所列的致敏分散染料不得用於 A 類。

This document has been drafted in English and translated into Chinese for convenience only. In the event of discrepancy, the English version shall prevail.

本文為英文編寫，為便於理解翻譯為中文。如中英文不一致時，以英文文本為準。

bluesign® system substances list 物質清單 (BSSL) | v10.0 | September 15, 2019

© bluesign technologies ag | www.bluesign.com



#### 5.1.4 Textiles dyed with disperse or metal complex dyes 使用分散染料或金屬錯合染料著色的紡織品

Disperse dyes and metal complex dyes may have a relevant consumer safety risk. Therefore, special restrictions concerning color fastness to perspiration are defined: for textiles dyed with disperse or metal complex dyes, fastness to perspiration must be at least between 3 and 4. The goal should be  $\geq 4$ .

Test method: ISO 105-E04 (2013)

分散染料和金屬錯合物染料有導致消費者安全的風險；因此對此類紡織品的汗漬牢度也有特別的限制：

分散染料或金屬錯合染料染色的紡織品汗漬牢度不得低於 3-4 級，應以達到 4 級以上為目標。

測試方法: DIN EN ISO 105-E04 (2013)

#### 5.1.5 Color fastness to saliva and perspiration 唾液和汗漬牢度

Testing of color fastness to saliva and perspiration can be relevant for articles with potential risk for mouthing and/or exposure to babies. Colors must be fast to saliva and perspiration. This corresponds to level 5 of the currently valid standard DIN 53160-1 (2010) (test with artificial saliva) and DIN 53160-2 (2010) (test with artificial sweat). The 5-step grey scale and its use for determining changes in colour of textiles in colour fastness tests are described in ISO 105-A02 (1993).

Test methods: § 64 LFGB BVL B 82.10-1 in combination with DIN 53160-1 and -2.

與口腔接觸的製品或嬰兒用品必須進行唾液和汗漬的牢度測試。這相當於目前有效標準 DIN53160-1(2010)(用人工唾液測試)和 DIN53160-2 (2010)(用人工汗液測試)的 5 級測試。在紡織品牢度測試中用來判定顏色變化的 5 階段灰度級距可透過 ISO105-A02(1993)瞭解詳情。

測試方法: § 64 LFGB; BVL B 82.10-1 及與 DIN53160-1 和-2 結合

#### 5.1.6 Restrictions and bans for chemical substances 限用和禁用的化學物質

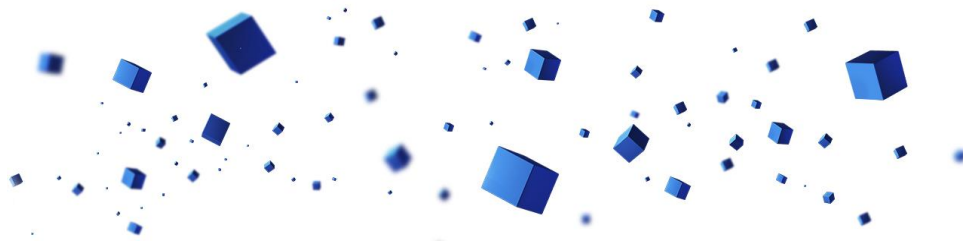
For easier comprehension and overview the substances are listed in groups according to the  
為了便於理解和概述，相關物質按照以下分組列出：

- chemical composition (e.g. amines, isocyanates)  
化學成分（如胺類，異氰酸酯類）
- functionality (e.g. flame retardants, solvents)  
功能性（如阻燃劑，溶劑）
- EHS-properties/risks (e.g. greenhouse gases, ozone depleting substances)  
環境、健康及安全影響（如溫室氣體，臭氧消耗物質）

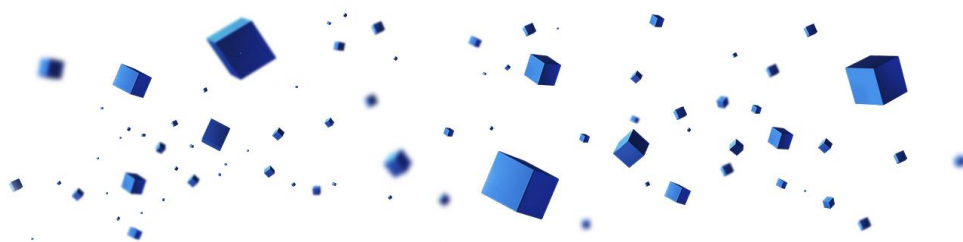
#### Note 注解:

Some of the substances may be relevant for more than one group; in such cases the substance is listed in the most likely group.

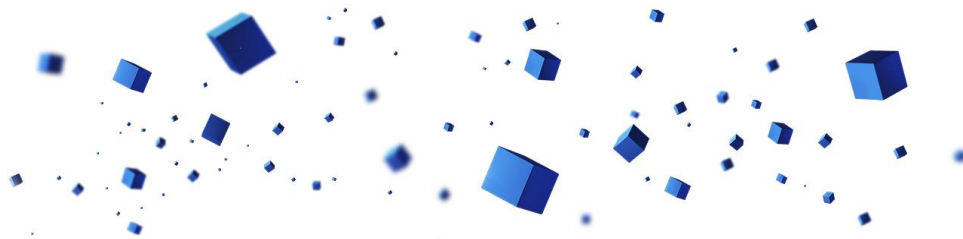
若該化學物質可分屬至多個類別，該物質將會在最相關的類別中列出。



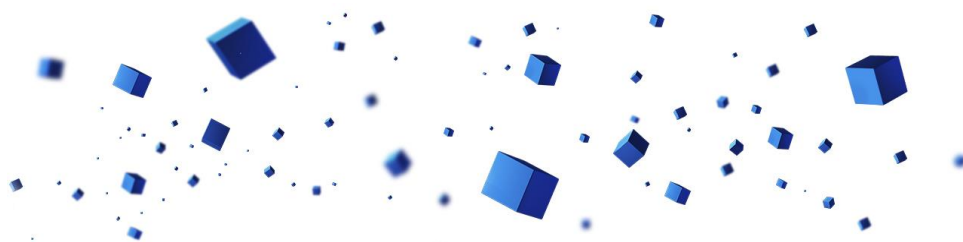
Aldehydes 醛類					
Chemical Substances 化學物質	CAS Number 化學品文摘號	Limit Value 限值 [mg/kg] Usage range 使用類別			Recommended Sample Preparation // Test Method 推薦樣品製備//測試方法
		A	B	C	
Acrolein 丙烯醛	107-02-8	Usage ban // Traces: 1.0 禁用//痕量: 1.0			Extraction with MeOH // LC-MS 甲醇萃取//LC-MS
Acetaldehyde 乙醛	75-07-0	10	10	100	Extraction with MeOH // LC-MS 甲醇萃取//LC-MS
Formaldehyde 甲醛	50-00-0	DL: 15 檢出極限: 15	75	300	Textile 紡織品: ISO 14184-1 (2011)  Leather 皮革: ISO 17226-1 (2008) or 或 ISO 17226-2 (2008)
Glyoxal 乙二醛	107-22-2	5	10	10	Extraction with MeOH // LC-MS 甲醇萃取//LC-MS
		Leather: Monitoring 皮革:監控			



Alkylphenols and Alkylphenoethoxylates 烷基酚和烷基酚聚氧乙烯醚					
Chemical Substances 化學物質	CAS Number 化學品文摘號	Limit Value 限值 [mg/kg] Usage range 使用類別			Recommended Sample Preparation // Test Method 推薦樣品製備//測試方法
		A	B	C	
Alkylphenols (APs) 烷基酚	Several 多個	Usage ban // Traces: 10 for every single substance  禁用//痕量: 每單個物質 10			Textile 紡織品: ISO 18254-1 (2016)  Leather 皮革: ISO 18218-1 (2015)
Nonylphenol, mixed isomers 壬基酚, 及其混合異構體	25154-52-3				
Isononylphenol 異壬基酚	11066-49-2				
4-Nonylphenol 4-壬基酚	104-40-5				
4-Nonylphenol, branched 4-壬基酚, 支鏈	84852-15-3				
Octylphenol 辛基酚	27193-28-8				
4-Octylphenol 4-對辛基酚	1806-26-4				
4-tert-Octylphenol 4-叔-辛基酚	140-66-9				
4-Heptylphenol, branched and linear 4-庚基酚, 支鏈和直鏈	-				
4-Nonylphenol, branched and linear 4-壬基酚, 支鏈和直鏈	-				
p-(1,1-Dimethylpropyl)phenol 對-(1,1-二甲基丙基)苯酚	80-46-6				
Alkylphenoethoxylates (APEOs) (EO) <sup>3-20</sup> 烷基酚聚氧乙烯醚(聚氧乙烯醚聚合度:3-20)	Several 多個	Usage ban // Traces: 100 for every single substance 禁用//痕量: 每單個物質 100  (If traces above 10 are detected the source of contamination has to be identified and phased out)			Textile 紡織品: ISO 18254-1 (2016)  Leather 皮革: ISO 18218-1 (2015)
Isononylphenol, ethoxylated 乙氧基異壬基酚	37205-87-1				
Nonylphenol, branched, ethoxylated 乙氧基壬基酚,支鏈	68412-54-4				
Nonylphenol, branched, ethoxylated, phosphate 乙氧基壬基酚磷酸酯,支鏈	68412-53-3				
4-Nonylphenol, branched, ethoxylated 乙氧基 4-壬基酚,支鏈	127087-87-0				
Octylphenol, ethoxylated 乙氧基辛基酚,支鏈	9036-19-5				



Octyl phenol ethoxylate, branched 9.5EO 乙氧基辛基酚, 支鏈 9.5EO	68987-90-6	(如檢測出超過 10 的痕量, 必須排查污染來源, 同時做出改進)	
Polyoxyethylated octyl phenol 辛基酚聚氧乙烯醚	9002-93-1		
Polyoxyethylated nonyl phenol 壬基酚聚氧乙烯醚	9016-45-9		
Polyoxyethylated p-nonyl phenol 對壬基酚聚氧乙烯醚	26027-38-3		
4-(1,1,3,3-tetramethylbutyl)phenol, Ethoxylated 4-(1,1,3,3-四甲基丁基)乙氧基苯酚, 支鏈	-		
4-Nonylphenol, branched and linear, ethoxylated 乙氧基 4-壬基酚, 支鏈和直鏈	-		



Amines 胺類					
Chemical Substances 化學物質	CAS Number 化學品文摘號	Limit Value 限值 [mg/kg] Usage range 使用類別			Recommended Sample Preparation // Test Method 推薦樣品製備//測試方法
		A	B	C	
2-Aminoethanol 2-氨基乙醇	141-43-5	100	200	200	Extraction with MeOH // GC-MS 甲醇萃取//GC-MS
Aminoethylethanolamine (AEEA) 氨基乙基乙醇胺	111-41-1	Usage ban // DL: 10 禁用//檢出極限: 10			Extraction with MeOH // GC-MS 甲醇萃取//GC-MS
Aniline (free) 遊離苯胺	62-53-3	Usage ban // DL: 30 禁用//檢出極限: 30			Extraction with MeOH // LC-MS 甲醇萃取//LC-MS
Fatty acid condensation products with AEEA which may cleave to AEEA 會裂解 AEEA 的脂肪酸/AEEA 縮聚物	Several 多個	Usage ban // DL: 10 禁用//檢出極限: 10			Extraction with MeOH and derivatisation with acetylacetone/water // LC-MS 甲醇萃取並用乙醯丙酮/水衍生//LC-MS
Dicyclohexylamine 二環己基胺	101-83-7	500	500	500	Extraction with MeOH // GC-MS 甲醇萃取//GC-MS
		Monitoring 監控			
Diethanolamine 二乙醇胺	111-42-2	10	10	10	
Diethylenetriamine 二乙烯三胺	111-40-0	1.0	10	50	
		Monitoring 監控			
Diphenylamine 二苯胺	122-39-4	100	100	100	
		Monitoring 監控			
Dipropylenetriamine 二亞丙基三胺	56-18-8	50	50	50	
		Monitoring 監控			
Ethylenediamine 乙二胺	107-15-3	Usage ban // DL: 10 禁用//檢出極限: 10			
Hexamethylenetetramine 環六亞甲基四胺	100-97-0	10	50	50	
Imidazole 咪唑	288-32-4	Usage ban // DL: 10 禁用//檢出極限: 10			

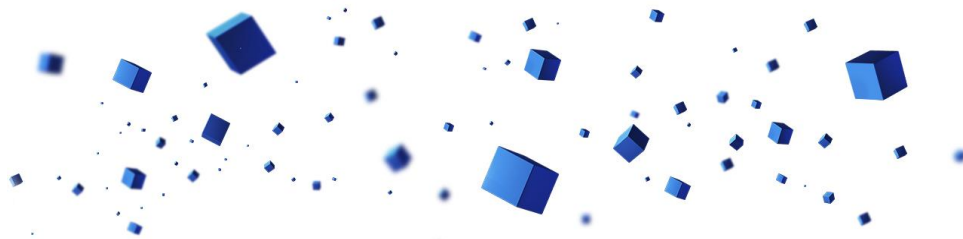
This document has been drafted in English and translated into Chinese for convenience only. In the event of discrepancy, the English version shall prevail.

本文為英文編寫，為便於理解翻譯為中文。如中英文不一致時，以英文文本為準。

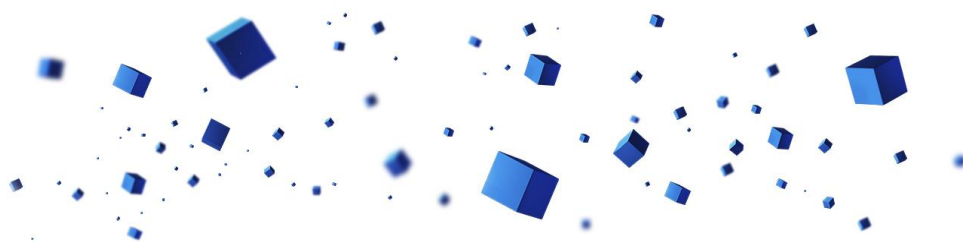
bluesign® system substances list 物質清單 (BSSL) | v10.0 | September 15, 2019

© bluesign technologies ag | www.bluesign.com





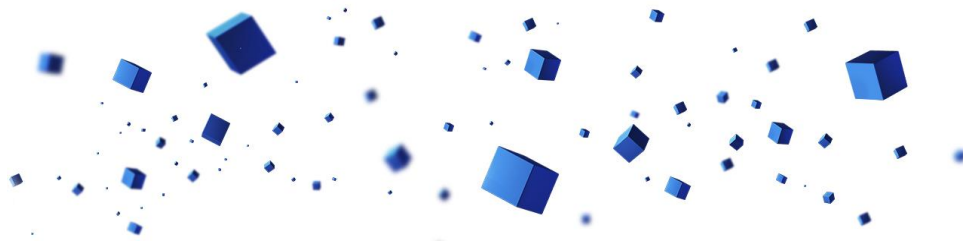
N-Methylaniline (Methylphenylamine) N-甲基苯胺(甲苯胺)	100-61-8	20	20	20	
2-Naphthylphenylamine N-苯基-2 萘胺	135-88-6	Usage ban // DL: 1.0 禁用//檢出極限:1.0			
p-Phenylenediamine 對苯二胺	106-50-3	Usage ban // DL: 20 禁用//檢出極限: 20			
p-Phenylenediamine-dihydrochloride 對苯二胺二鹽酸鹽	624-18-0	Usage ban // DL: 20 禁用//檢出極限: 20			
Triethanolamine 三乙醇胺	102-71-6	50	100	100	
Triethylamine 三乙胺	121-44-8	2.0	10	10	
Trimethylamine 三甲胺	75-50-3	10	10	10	



Arylamines (including corresponding salts) 芳香胺及其鹽					
Part 1 第一部分					
(as substance, for example in PU, and as decomposition product of azo colorants which, by reductive cleavage of one or more azo groups, may release one or more of the aromatic amines)					
(諸如聚氨酯和偶氮染料中某些成分會通過還原裂解釋放出芳香胺)					
Chemical Substances 化學物質	CAS Number 化學品文摘號	Limit Value 限值 [mg/kg] Usage range 使用類別			Recommended Sample Preparation // Test Method 推薦樣品製備//測試方法
		A	B	C	
p-Aminoazobenzene 對氨基偶氮苯	60-09-3	Usage ban // DL: 20 for every single aromatic amine  禁用// 檢出極限: 每單個芳香胺 20			Textile 紡織品: EN ISO 14362-1 (2017) EN ISO 14362-3 (2017) (for azo colorants which may release 4-Aminoazobenzene) (會釋放對氨基偶氮苯的著色劑)  Leather 皮革: EN ISO 17234-1 (2015) EN ISO 17234-2 (2011) (for azo colorants which may release 4-Aminoazobenzene) (會釋放對氨基偶氮苯的著色劑)
o-Aminoazotoluene 鄰氨基偶氮甲苯	97-56-3				
4-Aminobiphenyl 4-氨基聯苯	92-67-1				
6-Amino-2-ethoxynaphthalene 6-氨基-2-乙氧基萘	293733-21-8				
4-Amino-3-fluorophenol 4-氨基-3-氟苯酚	399-95-1				
2-Amino-4-nitrotoluene 2-氨基-4-硝基甲苯	99-55-8				
2-Anisidine 鄰氨基苯甲醚	90-04-0				
Benzidine 聯苯胺	92-87-5				
4-Chloroaniline 4-氯苯胺	106-47-8				
4-Chlor-2-toluidine 4-氯-2-甲苯胺	95-69-2				
4-Chloro-o-toluidinium chloride 4-氯鄰甲苯胺鹽酸鹽	3165-93-3				
p-Cresidine 對甲酚啞	120-71-8				
2,4-Diaminoanisole 2,4-二氨基苯甲醚	615-05-4				
4,4'-Diaminodiphenylmethane 4,4'-二氨基二苯甲烷	101-77-9				
2,4-Diaminotoluene 2,4-二氨基甲苯	95-80-7				



3,3'-Dichlorobenzidine 3,3'-二氯聯苯胺	91-94-1		
3,3'-Dimethoxybenzidine 3,3'-二甲氧基聯苯胺	119-90-4		
3,3'-Dimethylbenzidine 3,3'-二甲基聯苯胺	119-93-7		
3,3'-Dimethyl-4,4'-diaminodiphenylmethane 3,3'-二甲基-4,4'-二氨基二苯甲烷	838-88-0		
4-Methoxy-m-phenylene diammonium sulphate; 2,4-diaminoanisole sulphate 2,4-二氨基苯甲醚磺酸鹽	39156-41-7		
4,4'-Methylenebis-(2-chloroaniline) 4,4'-亞甲雙 (2-氯苯胺)	101-14-4		
2-Naphthylamine 2-萘胺	91-59-8		
2-Naphthylammoniumacetate 2-萘基醋酸銨	553-00-4		
4,4'-Oxydianiline 4,4'-二氨基二苯醚	101-80-4		
4,4'-Thiodianiline 4,4'-二氨基二苯硫醚	139-65-1		
m-Toluidine 間甲苯胺	108-44-1		
o-Toluidine 鄰甲苯胺	95-53-4		
p-Toluidine 對甲苯胺	106-49-0		



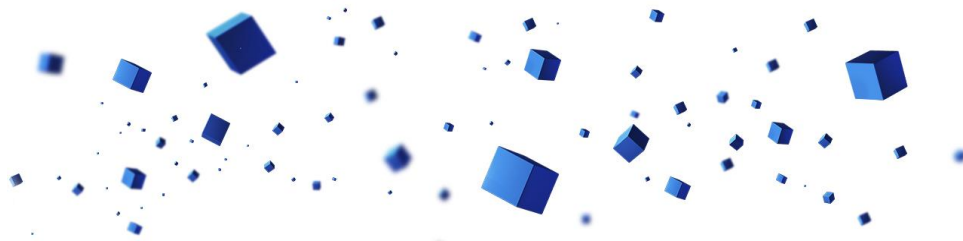
## Arylamines (including corresponding salts) 芳香胺及其鹽

### Part 2 第二部分

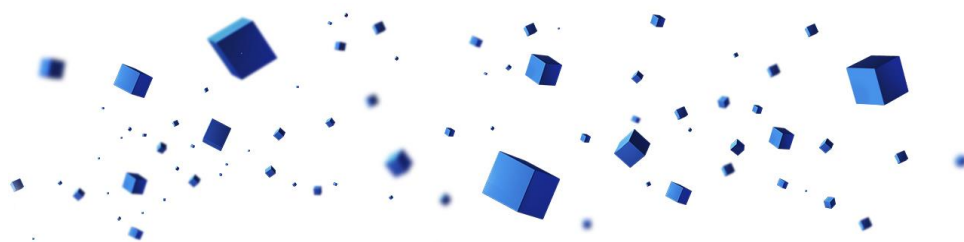
(as substance, for example in PU, and as decomposition product of azo colorants which, by reductive cleavage of one or more azo groups, may release one or more of the aromatic amines)

(諸如聚氨酯和偶氮染料中某些成分會通過還原裂解釋放出芳香胺)

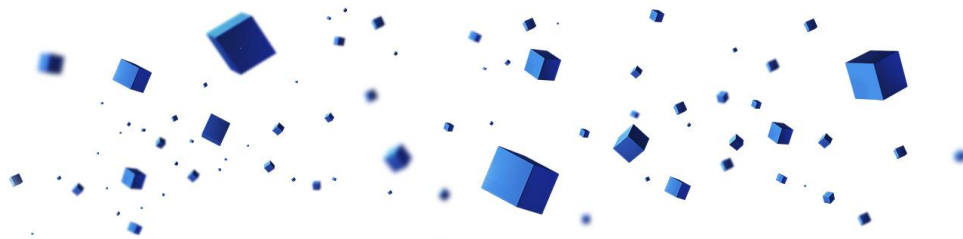
2,4,5-Trimethylaniline 2,4,5-三甲基苯胺	137-17-7	Usage ban // DL: 20 for every single aromatic amine	Textile: EN ISO 14362-1 (2017) EN ISO 14362-3 (2017) (for azo colorants which may release 4-Aminoazobenzene) (會釋放對氨基偶氮苯的著色 劑)
2,4,5-Trimethylaniline hydrochloride 2,4,5-三甲基苯胺鹽酸鹽	21436-97-5		
2,4-Xylidine 2,4-二甲基苯胺	95-68-1		
2,6-Xylidine 2,6-二甲基苯胺	87-62-7	禁用// 檢出極限: 每單個芳香胺 20	Leather: EN ISO 17234-1 (2015) EN ISO 17234-2 (2011) (for azo colorants which may release 4-Aminoazobenzene) (會釋放對氨基偶氮苯的著色 劑)



Asbestos 石棉						
Chemical Substances 化學物質	CAS Number 化學品文摘號	Limit Value 限值 [mg/kg] Usage range 使用類別			Recommended Sample Preparation // Test Method 推薦樣品製備//測試方法	
		A	B	C		
<b>Asbestos 石棉</b> (Single substances listed in Annex I) (各別物質詳見附錄 I)	<b>Several 多個</b>	Usage ban // Not detected 禁用 // 未檢出			REM/EDX BGI 505-46 or 或 U.S. EPA/600/R-93/116	

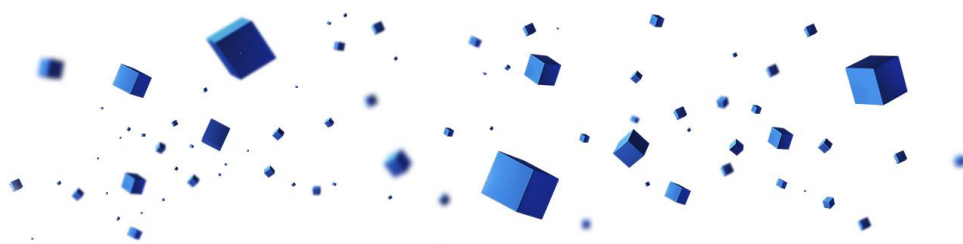


Biocides 殺菌劑					
Part 1 第一部分					
Chemical Substances 化學物質	CAS Number 化學品文摘號	Limit Value 限值 [mg/kg] Usage range 使用類別			Recommended Sample Preparation // Test Method 推薦樣品製備//測試方法
		A	B	C	
2-Chloroacetamide 2-氯乙醯氨	79-07-2	Usage ban // DL: 1.0 禁用//檢出極限:1.0			Extraction with MeOH // GC-MS 甲醇萃取//GC-MS
4-Chloro-3-methylphenol (CMK/CMC) 4-氯-3-甲基酚	59-50-7	For leather 皮革: Monitoring 監控			ISO 13365 (2011)
Dichlorophen 雙氯酚	97-23-4	Usage ban // DL: 1.0 禁用//檢出極限:1.0			Derivatisation with acetic anhydride // GC-MS 醋酸酐衍生 // GC-MS
Chlorinated and non-chlorinated Isothiazolinone-derivatives 氯代和非氯代的異噻唑啉酮類衍生物		Usage ban 禁用			Extraction with MeOH // LC-MS 甲醇萃取//LC-MS  Leather 皮革: ISO 13365 (2011)
5-Chloro-2-methyl-4-isothiazolin-3-one (CIT) 5-氯-2-甲基-4-異噻唑啉-3-酮	26172-55-4	Traces from preservatives: 1 防腐劑中痕量: 1			
2-Methyl-4-isothiazolin-3-one (MIT) 2-甲基-4-異噻唑啉-3-酮	2682-20-4	Traces from preservatives: 50 防腐劑中痕量: 50			
Mixture (3:1) of CIT and MIT 按 3:1 配比的 CIT 和 MIT 的混合物	55965-84-9	See limits for single substances 見各別物質的限值			
2-n-Octyl-4-isothiazolin-3-one (OIT) N-辛基異噻唑啉酮	26530-20-1	Traces from preservatives: 25 防腐劑中痕量: 25			
1,2-Benzisothiazol-3(2H)-one (BIT) 1,2-苯並異噻唑-3-酮, 1,2-苯並異噻唑啉酮	2634-33-5	Traces from preservatives: 25 防腐劑中痕量: 25			
Dichlorooctylisothiazolinone (DCOIT) 4,5-二氯-2-正辛基-3-異噻唑啉酮 (DCOIT)	64359-81-5	Usage ban // DL: 15 禁用//檢出極限: 15			
N-Methylol-chloroacetamide N-羥甲基氯乙醯胺	2832-19-1	Usage ban // DL: 1.0 禁用//檢出極限: 1.0			



<p>Permethrin            苳氯菊酯</p>	<p>52645-53-1</p>	<p>Usage ban for A and B            //            DL: 1.0            禁用在 A 類和 B 類//            檢出極限: 1.0</p> <p>Usage range C //            See bluesign® criteria            for biocidal products            and antimicrobial active            substances</p> <p>C 類使用範圍//            詳見 bluesign® criteria            殺菌和抗菌化學品準則</p>	<p>ASE or Soxhlet Extraction with            Acetone/Hexane // GC-MS or            LC-MS</p> <p>丙酮/己烷加速萃取或索氏萃            取 // GC-MS 或 LC-MC</p>
---------------------------------------	-------------------	-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------------------------------------------------------------------





Biocides 殺菌劑					
Part 2 第二部分					
Chemical Substances 化學物質	CAS Number 化學品文摘號	Limit Value 限值 [mg/kg] Usage range 使用類別			Recommended Sample Preparation // Test Method 推薦樣品製備//測試方法
		A	B	C	
o-Phenylphenol 鄰苯基苯酚	90-43-7	For textiles 紡織品:			Extraction with KOH 氫氧化鉀 萃取// § 64 LFGB B 82.02-8 (2001) or 或 DIN EN ISO 17070 (2015)
		50	50	50	
		For leather 皮革:			ISO 13365 (2011)
		50	100	200	
2-(Thiocyanatomethylthio) benzothiazol (TCMTB) 苯噻氰	21564-17-0	For leather 皮革: Monitoring 監控			ISO 13365 (2011)
Triclosan 三氯生 (5-Chloro-2-(2,4-dichlorophenoxy)phenol) (5-氯-2-(2,4-二氯苯氧基)苯酚)	3380-34-5	Usage ban for A and B // DL: 1.0 禁用在 A 類和 B 類// 檢出極限: 1.0  Usage range C // See bluesign® criteria for biocidal products and antimicrobial active substances  C 類使用範圍// 詳見 bluesign® criteria 殺菌和抗菌化學品準則			Extraction with DCM // GC- MS  二氯甲烷萃取//GC-MS



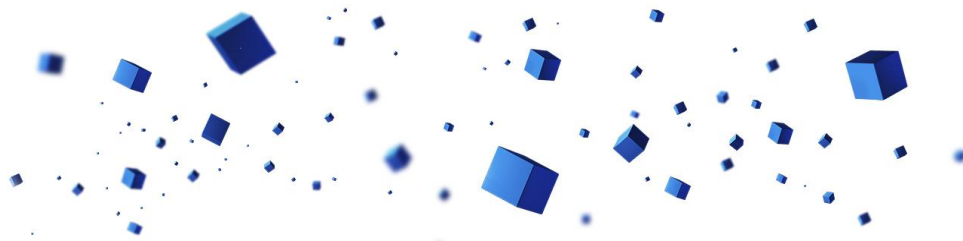
Chlorinated Benzenes and Toluenes 氯代苯和氯代甲苯類					
Chemical Substances 化學物質	CAS Number 化學品文摘號	Limit Value 限值 [mg/kg] Usage range 使用類別			Recommended Sample Preparation // Test Method 推薦樣品製備//測試方法
		A	B	C	
Chlorinated benzenes 氯代苯類		Usage ban // DL: 1.0 for every single substance 禁用//檢出極限： 每單個物質 1.0			DIN 54232 (2010)
Monochlorobenzene 一氯苯	108-90-7				
Dichlorobenzenes, all isomers (Single substances listed in Annex I) 二氯苯,及其異構體 (各別物質詳見附錄 I)	Several 多個				
Trichlorobenzenes, all isomers (Single substances listed in Annex I) 三氯苯,及其異構體 (各別物質詳見附錄 I)	Several 多個				
Tetrachlorobenzenes, all isomers (Single substances listed in Annex I) 四氯苯,及其異構體 (各別物質詳見附錄 I)	Several 多個				
Pentachlorobenzene 五氯苯	608-93-5				
Hexachlorobenzene 六氯苯	118-74-1				
Chlorinated toluenes 氯代甲苯類		For sum of all chlorinated benzenes and toluenes: 5.0 氯代苯和氯代甲苯總和 不得超過：5.0			
Monochlorotoluenes, all isomers (Single substances listed in Annex I) 一氯甲苯,及其異構體 (各別物質詳見附錄 I)	Several 多個				
Dichlorotoluenes, all isomers 二氯甲苯,及其異構體 (各別物質詳見附錄 I)	Several 多個				
Trichlorotoluenes, all isomers 三氯甲苯,及其異構體 (各別物質詳見附錄 I)	Several 多個				
Tetrachlorotoluenes, all isomers 四氯甲苯,及其異構體 (各別物質詳見附錄 I)	Several 多個				
Pentachlorotoluene 五氯甲苯	877-11-2				
Chlorotoluene, unspecific mixture 氯甲苯, 不特定混合物	25168-05-2				

This document has been drafted in English and translated into Chinese for convenience only. In the event of discrepancy, the English version shall prevail.

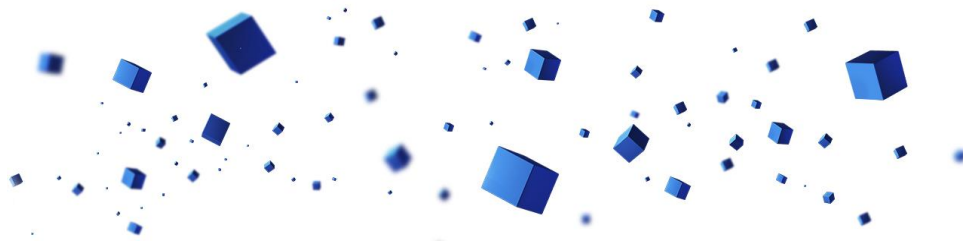
本文為英文編寫，為便於理解翻譯為中文。如中英文不一致時，以英文文本為準。

bluesign® system substances list 物質清單 (BSSL) | v10.0 | September 15, 2019

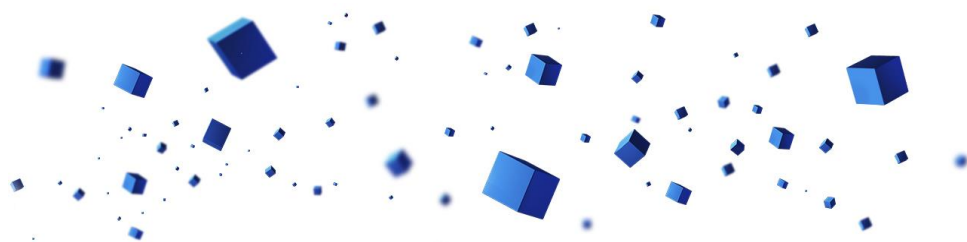
© bluesign technologies ag | www.bluesign.com



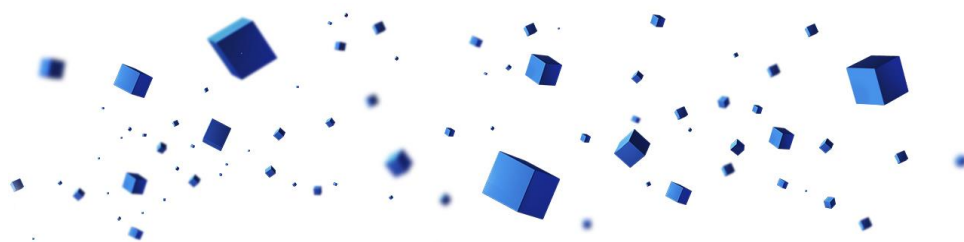
Chlorinated Phenols 氯代苯酚							
Part 1 第一部分							
Chemical Substances 化學物質	CAS Number 化學品文摘號	Limit Value 限值 [mg/kg] Usage range 使用類別			Recommended Sample Preparation // Test Method 推薦樣品製備//測試方法		
		A	B	C			
Monochlorophenols (MonoCPs), all isomers 一氯苯酚, 及其異構體	25167-80-0	Usage ban 禁用			Extraction with KOH // § 64 LFGB B 82.02-8 (2001) or DIN EN ISO 17070 (2015)  氫氧化鉀萃取// § 64 LFGB B 82.02-8 (2001) 或 DIN EN ISO 17070 (2015)		
		Traces 痕量:					
		1.0	1.0	1.0			
2-Chlorophenol 2-氯苯酚	95-57-8	Sum of all Mono- and DiCPs 所有單氯苯酚和二氯苯 酚總和					
3-Chlorophenol 3-氯苯酚	108-43-0						
4-Chlorophenol 4-氯苯酚	106-48-9						
Dichlorophenols (DiCP), all isomers 二氯苯酚, 及其異構體	25167-81-1						
2,3-Dichlorophenol 2,3-二氯苯酚	576-24-9						
2,4-Dichlorophenol 2,4-二氯苯酚	120-83-2						
2,5-Dichlorophenol 2,5-二氯苯酚	583-78-8						
2,6-Dichlorophenol 2,6-二氯苯酚	87-65-0						
3,4-Dichlorophenol 3,4-二氯苯酚	95-77-2						
3,5-Dichlorophenol 3,5-二氯苯酚	591-35-5						
Trichlorophenols (TriCP), all isomers 三氯苯酚, 及其異構體	25167-82-2	Usage ban 禁用					
		Traces 痕量:					
		0.05	0.5	0.5			
2,3,4-Trichlorophenol 2,3,4-三氯苯酚	15950-66-0	Sum of all TriCPs 所有三氯苯酚總和					
2,3,5-Trichlorophenol 2,3,5-三氯苯酚	933-78-8						
2,3,6-Trichlorophenol 2,3,6-三氯苯酚	933-75-5						
2,4,5-Trichlorophenol 2,4,5-三氯苯酚	95-95-4						
2,4,6-Trichlorophenol 2,4,6-三氯苯酚	88-06-2						
3,4,5-Trichlorophenol 3,4,5-三氯苯酚	609-19-8						



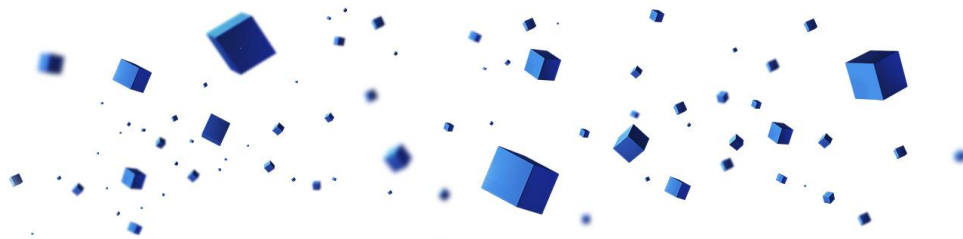
Chlorinated Phenols 氯代苯酚								
Part 2 第二部分								
Chemical Substances 化學物質	CAS Number 化學品文摘號	Limit Value 限值 [mg/kg] Usage range 使用類別			Recommended Sample Preparation // Test Method 推薦樣品製備//測試方法			
		A	B	C				
Tetrachlorophenol (TeCP), salts and compounds 四氯苯酚, 及其鹽和化合物	25167-83-3	Usage ban 禁用			Extraction with KOH // § 64 LFGB B 82.02-8 (2001) or DIN EN ISO 17070 (2015)  氫氧化鉀萃取 // § 64 LFGB B 82.02-8 (2001) 或 DIN EN ISO 17070 (2015)			
		Traces 痕量:						
		0.05	0.5	0.5				
2,3,4,5-Tetrachlorophenol 2,3,4,5-四氯苯酚	4901-51-3	Sum of all TeCPs 所有四氯苯酚總和						
2,3,4,6-Tetrachlorophenol 2,3,4,6-四氯苯酚	58-90-2							
2,3,5,6-Tetrachlorophenol 2,3,5,6-四氯苯酚	935-95-5							
Pentachlorophenol (PCP), salts, esters and compounds 五氯苯酚, 及其鹽和化合物	87-86-5	Usage ban 禁用						
		Traces 痕量:						
		0.05	0.5	0.5				
		Sum of all PCPs 所有五氯苯酚總和						



Colorants 著色劑					
Colorants with carcinogenic potential 可致癌著色劑					
Chemical Substances 化學物質	CAS Number 化學品文摘號	Limit Value 限值 [mg/kg] Usage range 使用類別			Recommended Sample Preparation // Test Method 推薦樣品製備//測試方法
		A	B	C	
Acid Red 26 酸性紅 26	3761-53-3	Usage ban // DL: 20 for every single substance  禁用 // 檢出極限: 每單個物質 20			DIN 54231 (2005)
Basic Green 4 鹼性綠 4	Several 多個				
Malachite green 孔雀石綠	10309-95-2				
Malachite green chloride 孔雀石綠鹽酸物	569-64-2				
Malachite green oxalate 孔雀石綠草酸鹽	2437-29-8				
Basic Red 9 鹼性紅 9	569-61-9				
Basic Violet 14 鹼性紫 14	632-99-5				
Direct Black 38 直接黑 38	1937-37-7				
Direct Blue 6 直接藍 6	2602-46-2				
Direct Red 28 直接紅 28	573-58-0				
Disperse Blue 1 分散藍 1	2475-45-8				
Disperse Orange 11 分散橙 11	82-28-0				
Disperse Yellow 3 分散黃 3	2832-40-8				
Pigment Black 25 顏料黑 25	68186-89-0				
Pigment Yellow 34 顏料黃 34	1344-37-2				
Pigment Yellow 157 顏料黃 157	68610-24-2				
Pigment Red 104 顏料紅 104	12656-85-8				
Solvent Yellow 2 (4-Dimethylaminoazobenzene) 溶劑黃 2 (4-二甲胺偶氮苯)	60-11-7				

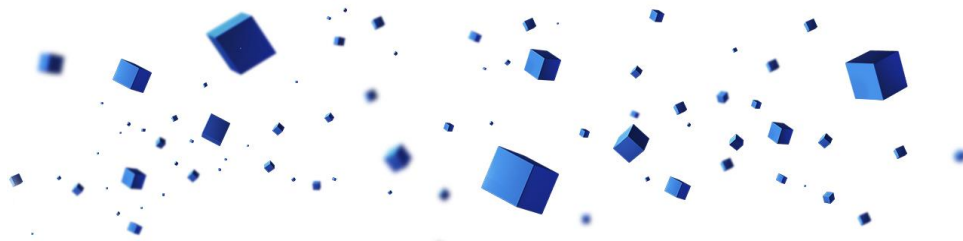


Colorants with allergenic potential 可致敏著色劑					
Chemical Substances 化學物質	CAS Number 化學品文摘號	Limit Value 限值 [mg/kg] Usage range 使用類別			Recommended Sample Preparation // Test Method 推薦樣品製備//測試方法
		A	B	C	
Disperse Blue 3 分散藍 3	2475-46-9	Usage ban // DL: 20 for every single substance  禁用// 檢出極限: 每單 個物質 20			DIN 54231 (2005)
Disperse Blue 7 分散藍 7	3179-90-6				
Disperse Blue 26 分散藍 26	3860-63-7				
Disperse Blue 35 分散藍 35	12222-75-2 56524-77-7				
Disperse Blue 102 分散藍 102	12222-97-8				
Disperse Blue 106 分散藍 106	12223-01-7				
Disperse Blue 124 分散藍 124	61951-51-7				
Disperse Brown 1 分散棕 1	23355-64-8				
Disperse Orange 1 分散橙 1	2581-69-3				
Disperse Orange 3 分散橙 3	730-40-5				
Disperse Orange 37/59/76 分散橙 37/59/76	12223-33-5 13301-61-6 51811-42-8				
Disperse Red 1 分散紅 1	2872-52-8				
Disperse Red 11 分散紅 11	2872-48-2				
Disperse Red 17 分散紅 17	3179-89-3				
Disperse Yellow 1 分散黃 1	119-15-3				
Disperse Yellow 9 分散黃 9	6373-73-5				
Disperse Yellow 39 分散黃 39	12236-29-2				
Disperse Yellow 49 分散黃 49	54824-37-2				
Solvent Yellow 14 溶劑黃 14	842-07-9				



Colorants banned for other reasons 其他禁用著色劑					
Chemical Substances 化學物質	CAS Number 化學品文摘號	Limit Value 限值 [mg/kg] Usage range 使用類別			Recommended Sample Preparation // Test Method 推薦樣品製備//測試方法
		A	B	C	
Acid Orange 24 酸性橙 24	1320-07-6	Usage ban // DL: 20 for every single substance  禁用// 檢出極限：每單 個物質 20			DIN 54231 (2005)
Acid Violet 49 酸性紫 49	1694-09-3				
Basic Blue 26 鹼性藍 26	2580-56-5				
Basic Violet 1 鹼性紫 1	8004-87-3				
Basic Violet 3 鹼性紫 3	548-62-9				
	603-48-5				
	14426-25-6				
Direct Black 91 直接黑 91	6739-62-4				
Direct Blue 76 直接藍 76	16143-79-6				
Direct Blue 218 直接藍 218	28407-37-6				
Direct Yellow 1 直接黃 1	6472-91-9				
Disperse Yellow 23 分散黃 23	6250-23-3				
Disperse Orange 149 分散橙 149	85136-74-9				
Navy Blue 海軍藍: A mixture of: disodium (6-(4-anisidino)-3-sulfonato-2-(3,5-dinitro-2-oxidophenylazo)-1-naphtholato)(1-(5-chloro-2-oxidophenylazo)-2-naphtholato)chromate(1-),trisodium bis(6-(4-anisidino)-3-sulfonato-2-(3,5-dinitro-2-oxidophenylazo)-1-naphtholato)chromate(1-) Component 組分 1: CAS-No: 118685-33-9 C39H23ClCrN7O12S.2Na Component 組分 2: C46H30CrN10O20S2.3Na	EC-number: 405-665-4  Component 1 組分 1: 118685-33-9  Component 2 組分 2: Not allocated 未編號				
Solvent Blue 4 溶劑藍 4	6786-83-0				





Colorants which can cleave in carcinogenic amines 可裂解出致癌芳香胺的著色劑					
Chemical Substances 化學物質	CAS Number 化學品文摘號	Limit Value 限值 [mg/kg] Usage range 使用類別			Recommended Sample Preparation // Test Method 推薦樣品製備//測試方法
		A	B	C	
<b>Colorants which can cleave in carcinogenic amines 可裂解出致癌芳香胺的著色劑</b> (Single substances listed in Annex I) (各別物質詳見附錄 I)	<b>Several 多個</b>	Usage ban // DL: 20 for every single substance 禁用 // 檢出極限: 每單個物質 20			DIN 54231 (2005)

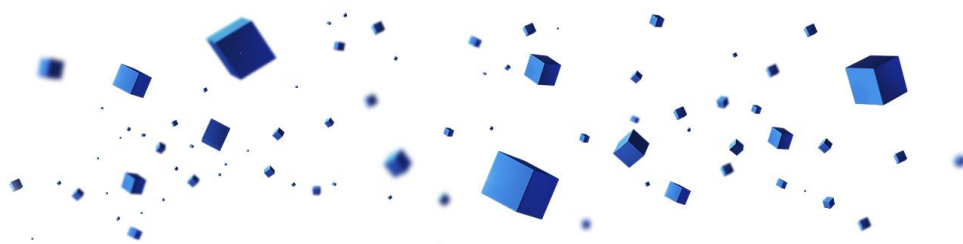
Dioxins and Furans 戴奧辛及呋喃					
Chemical Substances 化學物質	CAS Number 化學品文摘號	Limit Value 限值 [mg/kg] Usage range 使用類別			Recommended Sample Preparation // Test Method 推薦樣品製備//測試方法
		A	B	C	
<b>Group 組別 1</b> (Single substances listed in Annex I) (各別物質詳見附錄 I)	<b>Several 多個</b>	Usage ban // Sum of all traces group 1: 1.0 [µg/kg] 禁用 // 組別 1 痕量總和: 1.0 [µg/kg]			EPA 8290A
<b>Group 組別 2</b> (Single substances listed in Annex I) (各別物質詳見附錄 I)	<b>Several 多個</b>	Usage ban //Sum of all traces group 1 and 2: 5.0 [µg/kg] 禁用 // 組別 1/2 痕量總和: 5.0 [µg/kg]			
<b>Group 組別 3</b> (Single substances listed in Annex I) (各別物質詳見附錄 I)	<b>Several 多個</b>	Usage ban // Sum of all traces group 1, 2 and 3: 100 [µg/kg] 禁用 // 組別 1/2/3 痕量總和: 100 [µg/kg]			
<b>Group 組別 4</b> (Single substances listed in Annex I) (各別物質詳見附錄 I)	<b>Several 多個</b>	Usage ban // Sum of all traces group 4: 1.0 [µg/kg] 禁用 // 組別 4 痕量總和:1.0 [µg/kg]			
<b>Group 組別 5</b> (Single substances listed in Annex I) (各別物質詳見附錄 I)	<b>Several 多個</b>	Usage ban// Sum of all traces group 4 and 5: 5.0 [µg/kg] 禁用 // 組別 4/5 痕量總和: 5.0 [µg/kg]			

This document has been drafted in English and translated into Chinese for convenience only. In the event of discrepancy, the English version shall prevail.

本文為英文編寫，為便於理解翻譯為中文。如中英文不一致時，以英文文本為準。

bluesign® system substances list 物質清單 (BSSL) | v10.0 | September 15, 2019

© bluesign technologies ag | www.bluesign.com



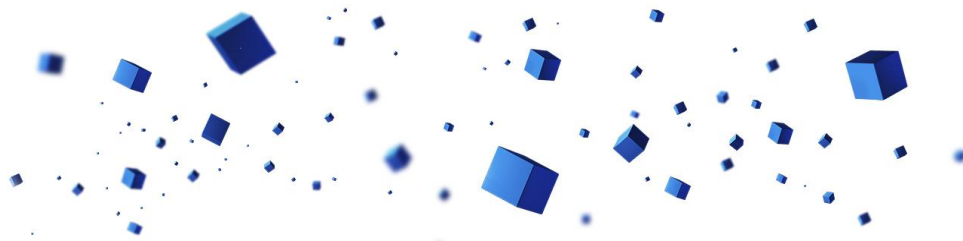
Flame Retardants 阻燃劑				
Part 1 第一部分				
Chemical Substances 化學物質	CAS Number 化學品文摘號	Limit Value 限值 [mg/kg] Usage range 使用類別		
		A	B	C
2,2-Bis(bromomethyl)-1,3-propanediol(BBMP) 2,2-雙(溴甲基)-1,3-丙二醇 (BBMP)	3296-90-0	Usage ban // DL: 5.0 禁用 // 檢出極限: 5.0		
Bis(2,3-dibromopropyl)phosphate (BDBPP) 雙(2,3-二溴丙基)磷酸鹽 (BDBPP)	5412-25-9	Usage ban // DL: 5.0 禁用 // 檢出極限: 5.0		
<b>Chlorinated paraffins, all chain lengths</b> 氯化石蠟, 所有鏈長	<b>Several 多個</b>	Usage ban 禁用		
Paraffin wax, chlorinated 氯化石蠟	63449-39-8	For all materials excluding leather:: DL: 5.0 除皮革外的紡織品: 檢出極限: 5.0 For leather (for every single substance) Traces : 100 皮革, 每單個物質 痕量: 100		
Paraffin, C10-C13, chlorinated (SCCP) 短鏈氯化石蠟, C10-C13	85535-84-8			
Paraffin, C14-C17, chlorinated (MCCP) 中鏈氯化石蠟, C14-C17	85535-85-9			
Paraffin, C18-C28, chlorinated (LCCP) 長鏈氯化石蠟, C18-C28	85535-86-0			
Hexabromocyclododecan (HBCDD) 六溴環十二烷及其異構體(HBCDD)	25637-99-4 3194-55-6 134237-50-6 134237-51-7 134237-52-8	Usage ban // DL: 5.0 禁用 // 檢出極限: 5.0		
<b>Polybrominated diphenyl ethers (PBDE)</b> 多溴聯苯醚	<b>Several 多個</b>	Usage ban // DL: 5.0 for every single substance  禁用 // 檢出極限: 每單個物質 5.0		
Tetrabromodiphenyl ether (TetraBDE) 四溴聯苯醚	40088-47-9			
Pentabromodiphenyl ether (PentaBDE) 五溴聯苯醚	32534-81-9			
Hexabromodiphenyl ether (HexaBDE) 六溴聯苯醚	36483-60-0			
Heptabromodiphenyl ether (HeptaBDE) 七溴聯苯醚	68928-80-3			
Octabromodiphenyl ether (OctaBDE) 八溴聯苯醚	32536-52-0			
Nonabromodiphenyl ether (NonaBDE) 九溴聯苯醚	63936-56-1			
Decabromodiphenyl ether (DecaBDE) 十溴聯苯醚	1163-19-5			

This document has been drafted in English and translated into Chinese for convenience only. In the event of discrepancy, the English version shall prevail.

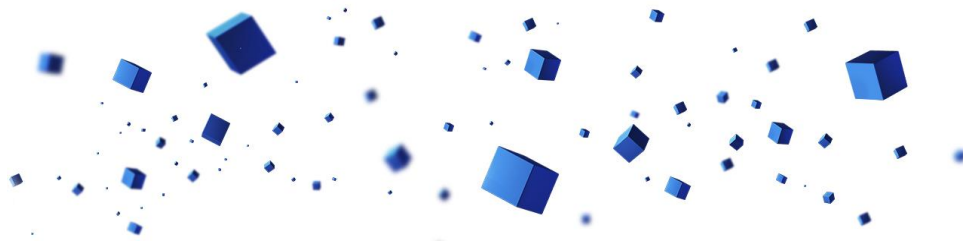
本文為英文編寫，為便於理解翻譯為中文。如中英文不一致時，以英文文本為準。

bluesign® system substances list 物質清單 (BSSL) | v10.0 | September 15, 2019

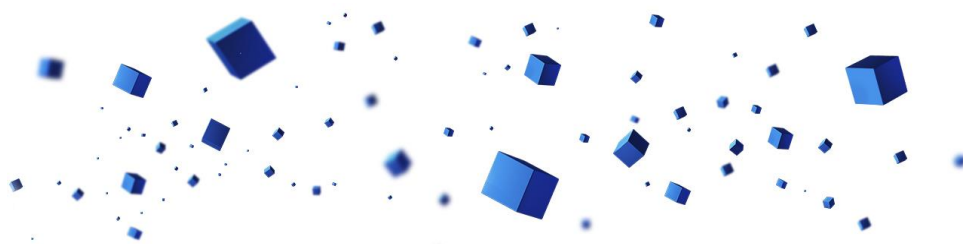
© bluesign technologies ag | www.bluesign.com



Tetrabromobisphenol A (TBBP A) 四溴雙酚 A	79-94-7	Usage ban // DL: 5.0 禁用 // 檢出極限: 5.0	ISO 17881-1 (2016)
Tetrabromobisphenol A bis(2,3-dibromopropylether) 四溴雙酚 A 雙(2,3-二溴丙基醚)	21850-44-2	Usage ban // DL: 5.0 禁用 // 檢出極限: 5.0	
Tri(aziridin-1-yl)phosphine oxide Triethylenephosphoramidate (TEPA) 三亞乙基磷醯胺	545-55-1	Usage ban // DL: 5.0 禁用 // 檢出極限: 5.0	ISO 17881-2 (2016)



Flame Retardants 阻燃劑						
Part 2 第二部分						
Chemical Substances 化學物質	CAS Number 化學品文摘號	Limit Value 限值 [mg/kg] Usage range 使用類別			Recommended Sample Preparation // Test Method 推薦樣品製備//測試方法	
		A	B	C		
Trimethyl phosphate 磷酸三甲酯	512-56-1	Usage ban // DL: 5.0 禁用 // 檢出極限: 5.0			ISO 17881-2 (2016)	
Tri-o-cresyl phosphate 磷酸三鄰甲苯酯	78-30-8	Usage ban // DL: 5.0 禁用 // 檢出極限: 5.0				
Tris(2-chloroethyl) phosphate (TCEP) 磷酸三(2-氯乙基)酯, 三(2-氯乙基)磷酸酯	115-96-8	Usage ban // DL: 5.0 禁用 // 檢出極限: 5.0				
Tris-(2-chloro-1-methylethyl)phosphate (TCPP) 三(二氯丙基)磷酸酯	13674-84-5	Usage ban // DL: 5.0 禁用 // 檢出極限: 5.0				
Tris-[2-chloro-1-(chloromethyl)ethyl]phosphate (TDCP or TDCPP) 三(1,3-二氯丙基)磷酸酯	13674-87-8	Usage ban // DL: 5.0 禁用 // 檢出極限: 5.0				
Tris(2,3-dibromopropyl) phosphate (TRIS) 磷酸三(2,3-二溴丙基)酯, 三(2,3-二溴丙醇)磷酸酯	126-72-7	Usage ban // DL: 5.0 禁用 // 檢出極限: 5.0				
Trixylyl phosphate (TXP) 三(二甲苯) 磷酸酯	25155-23-1	Usage ban // DL: 5.0 禁用 // 檢出極限: 5.0				



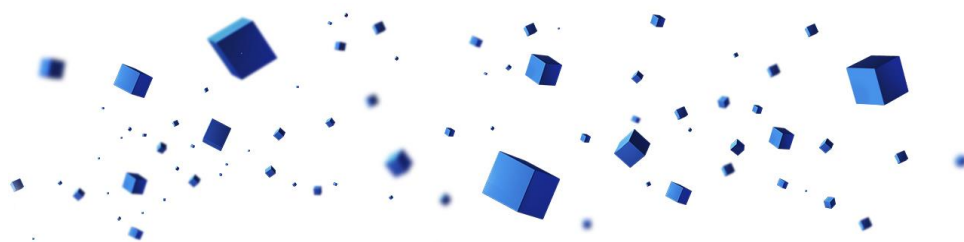
Fluorinated Substances 氟化物					
Part 1 第一部分					
Chemical Substances 化學物質	CAS Number 化學品文摘號	Limit Value 限值 [mg/kg] Usage range 使用類別			Recommended Sample Preparation // Test Method 推薦樣品製備//測試方法
		A	B	C	
<b>PFSA Chemicals*</b> 全氟烷基磺酸鹽類*	<b>Several 多個</b>				
Perfluoroalkylsulfonates $F(CF_2)_nSO_3^-$ [n ≥ 5] 全氟烷基磺酸鹽	Several 多個		Usage ban 禁用 //		CEN/TS 15968 (2014)
Perfluorohexane sulfonic acid / Perfluorohexane sulfonate (PFHxS) 全氟己烷磺酸/全氟己烷磺酸鹽	355-46-4 / 432-50-7		Traces 痕量: 20 [µg/kg]		
Perfluorooctane sulfonic acid / Perfluorooctane sulfonate (PFOS) 全氟辛烷磺酸/全氟辛烷磺酸鹽	1763-23-1		Usage ban 禁用 //		
			Traces 痕量: 1.0 [µg/m <sup>2</sup> ]		
Perfluoroalkylsulfonamides $F(CF_2)_nSO_2NH_2$ [n ≥ 5] 全氟烷基磺酸氨鹽	Several 多個		Usage ban 禁用 //		
			Traces 痕量: 20 [µg/kg]		
Perfluoroalkylsulfonamidoethanols $F(CF_2)_nSO_2N(R)CH_2CH_2OH_2$ [n ≥ 5, R = H, - CH <sub>3</sub> , -CH <sub>2</sub> CH <sub>3</sub> ] 全氟烷基磺酸乙醇胺鹽	Several 多個		Usage ban 禁用 //		CEN/TS 15968 (2014)
			Traces 痕量: 20 [µg/kg]		
Perfluoroalkylsulfonamidoethyl (meth)acrylates $F(CF_2)_nSO_2N(R)CH_2CH_2OC(O)CH(R)=CH_2$ [n ≥ 5, R = H, -CH <sub>3</sub> , -CH <sub>2</sub> CH <sub>3</sub> ] 全氟烷基磺乙醯胺基丙烯酸鹽	Several 多個		Usage ban 禁用 //		
			Traces 痕量: 20 [µg/kg]		
<b>PFBS Chemicals</b> 全氟丁烷磺酸鹽類	<b>Several 多個</b>				
Perfluorobutane sulfonic acid / Perfluorobutanesulfonates (PFBS) $F(CF_2)_4SO_3^-$ 全氟丁烷磺酸/全氟丁烷磺酸鹽	375-73-5 / 29420-43-3		1.0		CEN/TS 15968 (2014)
			Monitoring 監控		
Perfluorobutanesulfonamide $F(CF_2)_4SO_2NH_2$ 全氟丁烷磺胺鹽			50		
			Monitoring 監控		
Perfluorobutanesulfonamidoethanols $F(CF_2)_4SO_2N(R)CH_2CH_2OH_2$ [R = H, -CH <sub>3</sub> , -CH <sub>2</sub> CH <sub>3</sub> ] 全氟丁烷乙醇磺醯胺鹽	Several 多個		15		CEN/TS 15968 (2014)
			Monitoring 監控		

This document has been drafted in English and translated into Chinese for convenience only. In the event of discrepancy, the English version shall prevail.

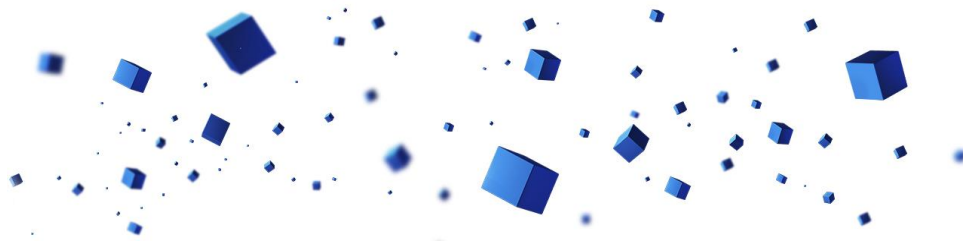
本文為英文編寫，為便於理解翻譯為中文。如中英文不一致時，以英文文本為準。

bluesign® system substances list 物質清單 (BSSL) | v10.0 | September 15, 2019

© bluesign technologies ag | www.bluesign.com

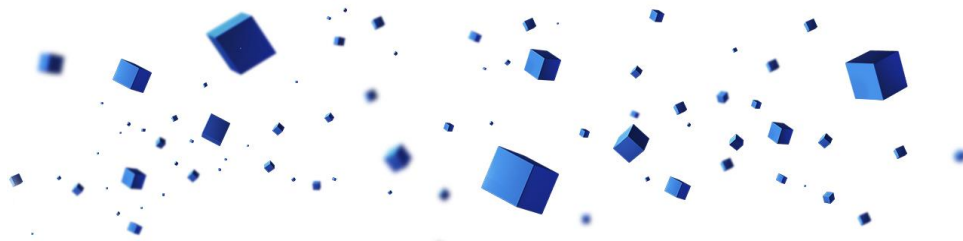


Perfluorobutanesulfonamidoethyl (meth)acrylates $\text{F}(\text{CF}_2)_4\text{SO}_2\text{N}(\text{R})\text{CH}_2\text{CH}_2\text{OC}(\text{O})\text{CH}(\text{R})=\text{CH}_2$ $[\text{R} = \text{H}, -\text{CH}_3, -\text{CH}_2\text{CH}_3]$ 全氟丁烷磺乙醯胺基丙烯酸鹽	Several 多個	15	
		Monitoring 監控	
<b>Fluorotelomer alcohols (FTOHs)</b> <b><math>\text{F}(\text{CF}_2)_n\text{CH}_2\text{CH}_2\text{OH}</math></b> (not included in the 'PFOA-related substances' group) 全氟烷基醇 (未列入'PFOA-相關物質'的組別)	Several 多個		
6:2 FTOH, Perfluorohexylethanol 1H,1H,2H,2H-全氟辛醇	647-42-7	Monitoring 監控	Extraction with MTBE // GC-MS 甲基叔丁基醚萃取 // GC-MS
<b>Fluorotelomer Olefins (FTOs)</b> (not included in the 'PFOA-related substances' group) 氟調聚物烯烴 (未列入'PFOA-相關物質'的組別)	Several 多個		
Perfluorohexylethene 全氟己基乙烯	25291-17-2	Monitoring 監控	ASE with Ethyl acetate // GC- MS or LC-MS 乙醯乙酯加速萃取 // GC-MS 或 LC-MS

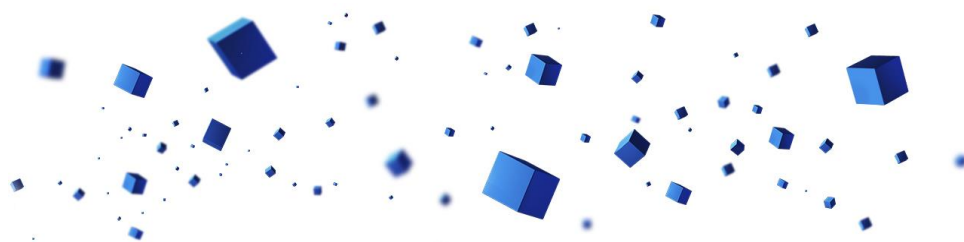


Fluorinated Substances 氟化物						
Part 2 第二部分						
Chemical Substances 化學物質	CAS Number 化學品文摘號	Limit Value 限值 [mg/kg] Usage range 使用類別			Recommended Sample Preparation // Test Method 推薦樣品製備//測試方法	
		A	B	C		
<b>Fluorotelomer (Meth)Acrylates</b> (not included in the 'PFOA-related substances' group) <b>氟調聚物(甲基)丙烯酸酯</b> (未列入'PFOA-相關物質'的組別)	<b>Several 多個</b>					
Perfluorohexylethyl acrylate or methacrylate 全氟已醇(甲基)丙烯酸酯	Several 多個		Monitoring 監控		Extraction with MTBE // GC-MS 甲基叔丁基醚萃取// GC-MS	
<b>Perfluorocarboxylic acid and salts (PFCA)</b> <b>全氟羧酸及其鹽</b>	<b>Several 多個</b>		Sum of all 0.1 總和不得超過 0.1			
Ammonium pentadecafluorooctanoate (APFO) 全氟辛酸銨	3825-26-1		Usage ban 禁用// Traces 痕量: 25 [µg/kg]  Valid from July 2019 自 2019 年 7 月生效		CEN/TS 15968 (2014)	
Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts 全氟癸酸及其鈉與銨鹽	335-76-2 or Several 多個		Usage ban 禁用// Traces 痕量: 0.05 / Monitoring 監控  Valid from July 2019 自 2019 年 7 月生效			
Henicosafluoroundecanoic acid 全氟十一酸	2058-94-8		Usage ban 禁用// Traces 痕量: 0.05 / Monitoring 監控  Valid from July 2019 自 2019 年 7 月生效			
Tricosafluorododecanoic acid 全氟十二酸	307-55-1		Usage ban 禁用// Traces 痕量: 0.05 / Monitoring 監控  Valid from July 2019 自 2019 年 7 月生效			





Pentacosafuorotridecanoic acid 全氟十三酸	72629-94-8	Usage ban 禁用// Traces 痕量: 0.05 / Monitoring 監控 Valid from July 2019 自 2019 年 7 月生效
Heptacosafuorotetradecanoic acid 全氟十四酸	376-06-7	Usage ban 禁用// Traces 痕量: 0.05 / Monitoring 監控 Valid from July 2019 自 2019 年 7 月生效
Perfluorobutanoic acid (PFBA) 全氟丁酸	375-22-4	Usage ban 禁用 // Traces 痕量: 0.05 Monitoring 監控
Perfluorohexanoic acid (PFHxA) 全氟己酸	307-24-4	Usage ban 禁用 // Traces 痕量: 0.05 Monitoring 監控
Perfluoroheptanoic acid (PFHpA) 全氟庚酸	375-85-9	Usage ban 禁用// Traces:痕量 0.05 / Monitoring 監控  Valid from July 2019 自 2019 年 7 月生效
Perfluorooctanoic acid (PFOA)** 全氟辛酸**	335-67-1	Usage ban 禁用 // Traces 痕量: 25 µg/kg
Perfluorononanoic acid (PFNA)** 全氟壬酸**	375-95-1	Usage ban 禁用 // Traces 痕量: 0.05 mg/kg Monitoring 監控



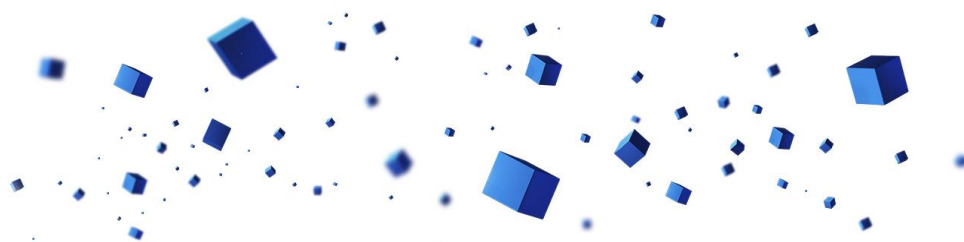
Fluorinated Substances 氟化物					
Part 3 第三部分					
Chemical Substances 化學物質	CAS Number 化學品文摘號	Limit Value 限值 [mg/kg] Usage range 使用類別			Recommended Sample Preparation // Test Method 推薦樣品製備//測試方法
		A	B	C	
PFOA-related substances PFOA-相關物質	Several 多個				
Heptadecafluoro-1-iodooctane** 十七氟-1-碘辛烷	507-63-1	Usage ban 禁用 // Traces 痕量: 1000 µg/kg (for the sum of PFOA- related substances PFOA-相關物質的總和)			CEN/TS 15968 (2014)
1H,1H,2H,2H-Perfluorodecylidide** 1H,1H,2H,2H-全氟葵醇碘癸烷**	2043-53-0				CEN/TS 15968 (2014)
8:2 FTOH, Perfluorooctylethanol** 1H,1H,2H,2H-全氟葵醇**	678-39-7				Extraction with MTBE // GC-MS 甲基叔丁基醚萃取// GC-MS
Perfluorooctylethene** 全氟己基乙烯**	21652-58-4				ASE with Ethyl acetate // GC-MS or LC-MS 乙酸乙酯加即溶劑萃取//GC-MS 或 LC-MS
Perfluorooctylethyl acrylate or methacrylate** 全氟辛醇(甲基)丙烯酸酯**	Several 多個				Extraction with MTBE // GC-MS 甲基叔丁基醚萃取// GC-MS
Perfluoroisobutylene 全氟異丁烯	382-21-8	0.1			Headspace GC-MS 頂空進樣 GC-MS
Tetrafluoroethylene 四氟乙烯	116-14-3	1.0			Headspace GC-MS 頂空進樣 GC-MS

\* Ban on long-chain compounds in manufacturing based on long-chain electrofluorination chemistry (C6 and higher).

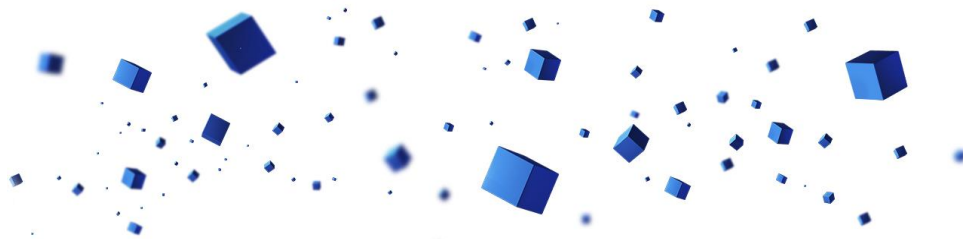
禁止用於 C6 及以上電解氟化產品生產的長鏈化合物

\*\* Phase-out of long-chain compounds in manufacturing based on long-chain telomer chemistry (C8 and higher) until end of 2014.

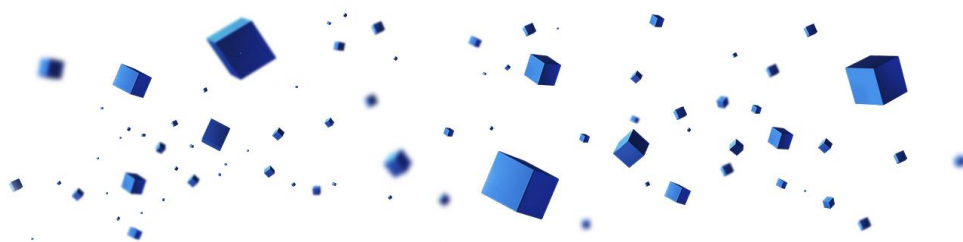
2014 年底需淘汰的用於 C8 及以上調聚物產品生產的長鏈化合物



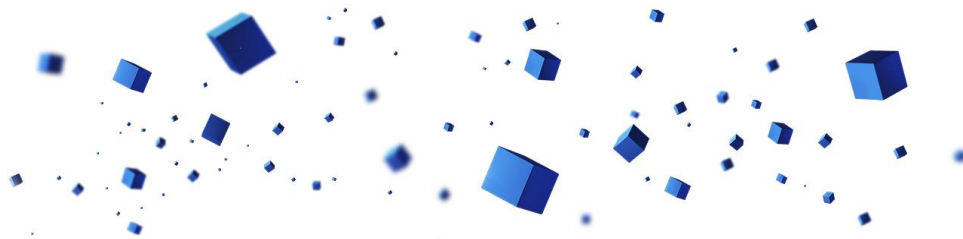
Glycols 乙二醇類					
Chemical Substances 化學物質	CAS Number 化學品文摘號	Limit Value 限值 [mg/kg] Usage range 使用類別			Recommended Sample Preparation // Test Method 推薦樣品製備//測試方法
		A	B	C	
Bis(2-methoxyethyl)-ether 雙(2-甲氧乙基)-醚	111-96-6	Usage ban // DL: 5.0 禁用 // 檢出極限: 5.0			Textile 紡織品:  Extraction with MeOH // GC-MS 甲醇萃取// GC-MS  Plastic 塑製品: 2-Step extraction with THF and MeOH // GC-MS 四氫呋喃和甲醇兩步萃取法// GC-MS
2-Butoxyethanol 2-丁氧基乙醇	111-76-2	50	100	100	
2-Butoxyethylacetate 2-乙二醇丁醚乙酸酯	112-07-2	10	100	100	
2-Ethoxyethanol 乙二醇單乙醚	110-80-5	Usage ban // DL: 5.0 禁用 // 檢出極限: 5.0			
2-Ethoxyethyl acetate 乙酸乙氧乙酯	111-15-9	Usage ban // DL: 5.0 禁用 // 檢出極限: 5.0			
Ethylene glycol dimethyl ether 乙二醇二甲醚	110-71-4	Usage ban // DL: 5.0 禁用 // 檢出極限: 5.0			
2-Methoxyethanol 2-甲氧基乙醇	109-86-4	Usage ban // DL: 5.0 禁用 // 檢出極限: 5.0			
2-Methoxyethylacetate 乙酸甲氧乙酯	110-49-6	Usage ban // DL: 5.0 禁用 // 檢出極限: 5.0			
2-(2-Methoxyethoxy)-ethanol 2-(2-甲氧基乙氧基)-乙醇	111-77-3	1.0	10	100	
1-Methoxy-2-propanol 1-丙二醇單甲醚	107-98-2	50	200	200	
2-Methoxy-1-propanol 2-丙二醇單甲醚	1589-47-5	Usage ban // DL: 5.0 禁用 // 檢出極限: 5.0			
2-Methoxypropylacetate 2-丙二醇單甲醚醋酸酯	70657-70-4	Usage ban // DL: 5.0 禁用 // 檢出極限: 5.0			
Triethylene glycol dimethyl ether 三乙二醇二甲醚	112-49-2	Usage ban // DL: 5.0 禁用 // 檢出極限: 5.0			



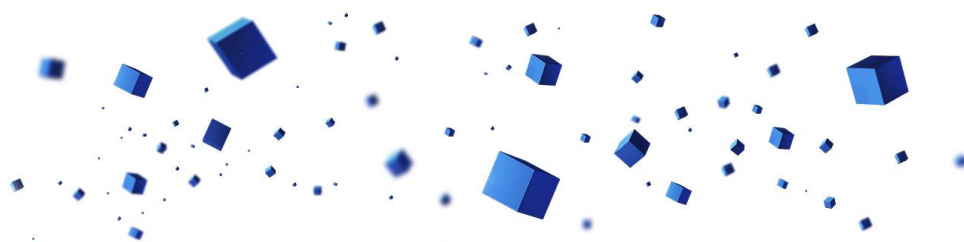
Greenhouse Gases, fluorinated 含氟溫室氣體						
Chemical Substances 化學物質	CAS Number 化學品文摘號	Limit Value 限值 [mg/kg] Usage range 使用類別			Recommended Sample Preparation // Test Method 推薦樣品製備//測試方法	
		A	B	C		
<b>Greenhouse gases, fluorinated</b> (Single substances listed in Annex I) <b>含氟溫室氣體</b> (各別物質詳見附錄 I)	<b>Several 多個</b>	Usage ban for direct use in manufacturing of articles // DL: 0.1 for every single substance 禁止直接使用於生產中 // 檢出極限: 每單個物質 0.1			Headspace GC-MS 頂空進樣 GC-MS	



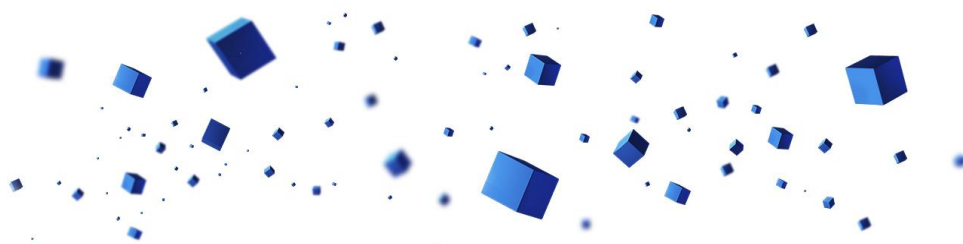
Halogenated Biphenyls, halogenated Terphenyls and halogenated Naphthalenes 鹵代聯苯，鹵代三聯苯和鹵代萘						
Chemical Substances 化學物質	CAS Number 化學品文摘號	Limit Value 限值 [mg/kg] Usage range 使用類別			Recommended Sample Preparation // Test Method 推薦樣品製備//測試方法	
		A	B	C		
Polybrominated biphenyls (PBBs) 多溴聯苯	59536-65-1	Usage ban // DL: 5.0 禁用 // 檢出極限: 5.0			ISO 17881-1 (2016)	
Hexabromo biphenyl 六溴聯苯	36355-01-8	Usage ban // DL: 5.0 禁用 // 檢出極限: 5.0				
Polychlorinated biphenyls (PCBs) 多氯聯苯	1336-36-3	Usage ban // DL: 1.0 禁用 // 檢出極限:1.0				
Polychlorinated terphenyls (PCTs) 多氯三聯苯	61788-33-8	Usage ban // DL: 1.0 禁用 // 檢出極限:1.0				
Polybrominated terphenyls (PBTs) 多溴三聯苯	Several 多個	Usage ban // DL: 1.0 禁用 // 檢出極限:1.0				
Polychlorinated naphthalenes (PCNs) 多氯化萘	Several 多個					
Monochloronaphthalene 氯化萘	25586-43-0	Usage ban // DL: 1.0 for every single substance  禁用 // 檢出極限: 每單個物質 1.0				
Dichloronaphthalene 二氯化萘	28699-88-9					
Trichloronaphthalene 三氯化萘	1321-65-9					
Tetrachloronaphthalene 四氯化萘	1335-88-2					
Pentachloronaphthalene 五氯化萘	1321-64-8					
Hexachloronaphthalene 六氯化萘	1335-87-1					
Heptachloronaphthalene 七氯化萘	32241-08-0					
Octachloronaphthalene 八氯化萘	2234-13-1					
Polybrominated naphthalenes (PBNs) 多溴化萘	Several 多個	Usage ban // DL: 1.0 禁用 // 檢出極限:1.0				



Halogenated Diarylalkanes 鹵代雙環烷類					
Chemical Substances 化學物質	CAS Number 化學品文摘號	Limit Value 限值 [mg/kg] Usage range 使用類別			Recommended Sample Preparation // Test Method 推薦樣品製備//測試方法
		A	B	C	
<b>Halogenated diarylalkanes</b> 鹵代雙環烷類	<b>Several 多個</b>	Usage ban // DL: 1.0 for every single substance  禁用 // 檢出極限: 每單個物質 1.0			Extraction following IEC 62321-6 (2015) // GC-MS  按照 IEC 62321-6 (2015)萃取 // GC-MS
Monomethyl-dibromo-diphenyl methane 單甲基-二溴-二苯基甲烷	99688-47-8				
Monomethyl-dichloro-diphenyl methane 單甲基-二氯-二苯基甲烷	81161-70-8				
Monomethyl-tetrachloro-diphenyl methane 單甲基-四氯-二苯基甲烷	76253-60-6				



Isocyanates 異氰酸酯					
Chemical Substances 化學物質	CAS Number 化學品文摘號	Limit Value 限值 [mg/kg] Usage range 使用類別			Recommended Sample Preparation // Test Method 推薦樣品製備//測試方法
		A	B	C	
Isocyanates 異氰酸酯	Several 多個	Free content applies to sum of all isocyanates:  所有的異氰酸酯總和:			EN 13130-8 (2004)
1,3-bis(isocyanatomethyl)benzene (XDI) 間苯二甲基異氰酸酯	3634-83-1				
Diphenylmethane-4,4'-di-isocyanate (MDI) 二苯基甲烷-4,4'-二異氰酸酯	101-68-8				
Diphenylmethan-2,2-di-isocyanate (2,2-MDI) 二苯基甲烷-2,2-二異氰酸酯	2536-05-2				
Diphenylmethan-2,4-di-isocyanate (2,4-MDI) 二苯基甲烷-2,4-二異氰酸酯	5873-54-1				
MDI mixed isomers MDI 混合異構體	26447-40-5				
Technical grade MDI 技術級的 MDI	9016-87-9				
Hexamethylene diisocyanate (HMDI) 己二異氰酸酯	822-06-0				
Isophorone diisocyanate (IPDI) 異佛爾酮二異氰酸酯	4098-71-9	1.0	1.0	1.0	
Tetramethylxylene diisocyanate (TMXDI) 四甲基二甲苯二異氰酸酯	2778-42-9	PU coating and plastics: Monitoring  PU 塗層和塑膠: 監控			
Toluene-2,4-diisocyanate (2,4-TDI) 甲苯-2,4-二異氰酸酯	584-84-9				
Toluene-2,6-diisocyanate (2,6-TDI) 甲苯-2,6-二異氰酸酯	91-08-7				
2,4-/2,6-TDI mixture 2,4-/2,6-TDI 混合物	26471-62-5				
2,6-Diisopropylphenyl-isocyanate 2,6-二異丙苯基-異氰酸酯	28178-42-9				
4,4-Methylenedicyclohexyl-di-isocyanate (4,4-MDI) 二環己基甲烷-4,4'-二異氰酸酯	5124-30-1				
Napthylene-1,5-di-isocyanate (1,5-NDI) 萘基-1,5-二異氰酸酯	3173-72-6				
Phenylisocyanate 苯基異氰酸酯	103-71-9				



Metals 金屬					
Part 1 第一部分					
Chemical Substances 化學物質	CAS Number 化學品文摘號	Limit Value 限值 [mg/kg] Usage range 使用類別			Recommended Sample Preparation // Test Method 推薦樣品製備//測試方法
		A	B	C	
Antimony 銻	7440-36-0	Usage as flame retardant: bluesign® criteria for flame retardants have to be followed 阻燃劑:見 bluesign® criteria 阻燃劑 準則			
		In other cases 如下情況時:			Textiles 紡織品: DIN EN 16711-1 (2016) (total content 總含量)
		Polyester raw fiber 聚酯原纖 Total content 總含量: 260			
		For textiles and leather 紡織品/皮革: Extractable content 可萃取含量:			Textiles 紡織品: DIN EN 16711-2 (2016) (acidic sweat solution 酸 性汗液)
		5	10	10	
		For metal parts and non-metal parts others than textiles and leather 金屬/非金屬(紡織品/皮革外) - Extractable content 可萃取含量:			EN 71-3 (2013) (acid solution simulating gastric juices 仿胃液 酸性溶液) // ISO 17294-2 (2016) or DIN EN ISO 11885 (2009)
60					
Arsenic 砷	7440-38-2	Usage ban 禁用 Traces 痕量 Extractable content 可萃取含量: 0.2 Traces 痕量 Total content 總含量: 10			Textiles and others 紡織品和其他: DIN EN 16711-1 (2016) (total content 總含量) DIN EN 16711-2 (2016) (acidic sweat solution 酸性汗液)  Leather 皮革: ISO 17072-1 (2011) (acidic sweat solution 酸性汗液) ISO 17072-2 (2011) (total content 總含量)

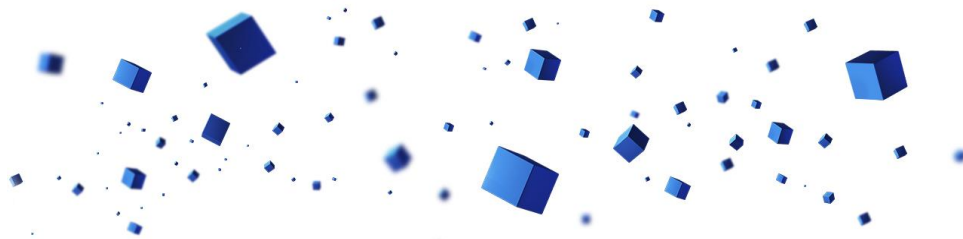
This document has been drafted in English and translated into Chinese for convenience only. In the event of discrepancy, the English version shall prevail.

本文為英文編寫，為便於理解翻譯為中文。如中英文不一致時，以英文文本為準。

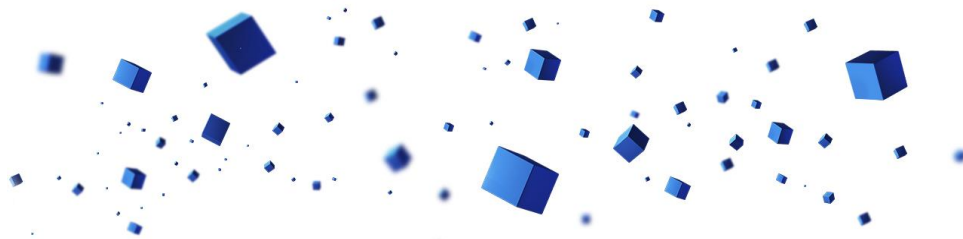
bluesign® system substances list 物質清單 (BSSL) | v10.0 | September 15, 2019

© bluesign technologies ag | www.bluesign.com





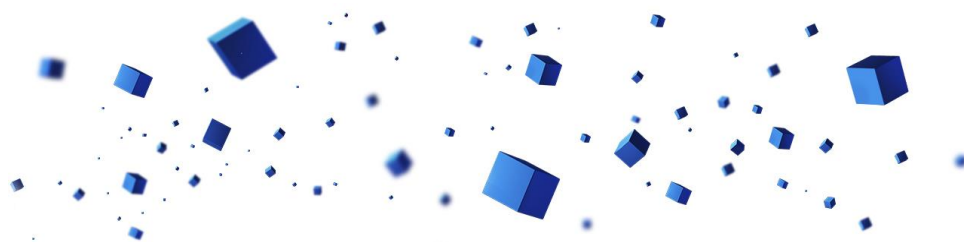
Barium 鋇	7440-39-3	For textiles 紡織品: Total content 總含量: 100	DIN EN 16711-1 (2016) (total content 總含量)
		For metal parts and non-metal parts others than textiles 除紡織品外的金 屬/非金屬部分: Extractable content 可萃取含量: 1000	EN 71-3 (2013) (acid solution simulating gastric juices 仿胃液 酸性溶液) // ISO 17294-2 (2016) or DIN EN ISO 11885 (2009)



Metals 金屬					
Part 2 第二部分					
Chemical Substances 化學物質	CAS Number 化學品文摘號	Limit Value 限值 [mg/kg] Usage range 使用類別			Recommended Sample Preparation // Test Method 推薦樣品製備//測試方法
		A	B	C	
Cadmium 鎘	7440-43-9	Usage ban 禁用			
		For non-metal parts (textiles, leather and others): 非金屬部分(紡織/皮革/其他): Traces 痕量 Extractable content 可萃取含量: 0.1 Traces 痕量 Total content 總含量: 40			Textiles and others 紡織品及其他: DIN EN 16711-2 (2016) (acidic sweat solution 酸性汗液) Leather 皮革: ISO 17072-1 (2011) (acidic sweat solution 酸性汗液)  Textiles and others 紡織品及其他: DIN EN 16711-1 (2016) (total content 總含量) Leather 皮革: ISO 17072-2 (2011) (total content 總含量)
		For metal parts 金屬部分: Traces 痕量 Total content 總含量: 40			DIN EN 16711-1 (2016) (total content 總含量)
Chromium 鉻	7440-47-3	For textiles 紡織品 Extractable content 可萃取含量: 0.5			DIN EN 16711-2 (2016) (acidic sweat solution 酸性汗液)
		For textiles dyed with chromium containing metal complex dyes 絡合染料染色的紡織品 Extractable content 可萃取含量:			
		1.0	2.0	2.0	
		For leather 皮革: No regulation 不限			-



		<p>For metal parts and non-metal parts other than textiles and leather:</p> <p>金屬/非金屬部分(紡織品/皮革外)</p> <p>Extractable content</p> <p>可萃取含量: 60</p> <p>If products are covered with a metal layer, including a chromium layer, coating must be constantly in good condition</p> <p>如產品使用含鉻在內的金屬層,則塗層必須在良好條件下完成</p>	<p>EN 71-3 (2013) (acid solution simulating gastric juices 仿胃液的酸性溶液) // ISO 17294-2 (2016) or DIN EN ISO 11885 (2009)</p>
--	--	-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	---------------------------------------------------------------------------------------------------------------------------



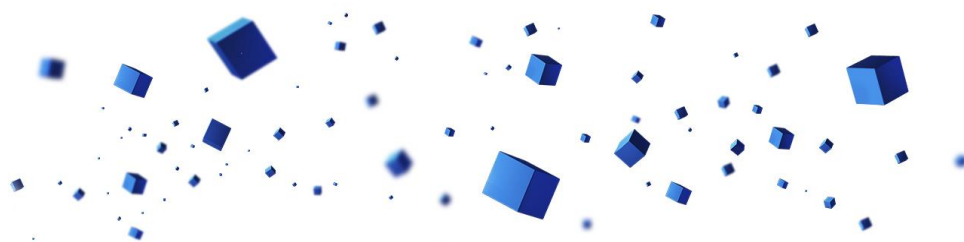
Metals 金屬						
Part 3 第三部分						
Chemical Substances 化學物質	CAS Number 化學品文摘號	Limit Value 限值 [mg/kg] Usage range 使用類別			Recommended Sample Preparation // Test Method 推薦樣品製備//測試方法	
		A	B	C		
Chromium (VI) 鉻(VI)	18540-29-9	Usage ban 禁用				
		For metal parts and non-metal parts others than leather: 除皮革外金屬/非金屬部分 Extractable content 可萃取含量: DL 檢出極限: 0.5			EN ISO 17075-1 or -2 (2017)	
		For leather 皮革 Extractable content 可萃取含量: DL 檢出極限: 3.0			DIN EN ISO 4044 (2017) // EN ISO 17075-1 (2017-) or EN ISO 17075-2 (2017-05)	
Cobalt 鈷	7440-48-4	For textiles and leather 紡織品/皮革: Extractable content 可萃取含量: 1.0			Textiles and others 紡織品及 其他: DIN EN 16711-2 (2016) (acidic sweat solution 酸性汗 液)	
		For textiles and leather dyed with cobalt containing metal complex dyes: 鈷絡合染料染色的紡織品和皮革 Extractable content 可萃取含量:				
		1.0	4.0	4.0	Leather 皮革: ISO 17072-1 (2011) (acidic sweat solution 酸性汗液)	
		For metal parts and non-metal parts others than textiles and leather 金屬/非金屬部分(紡織品/皮革外) Extractable content 可萃取含量:				
		1.0	4.0	4.0		
Copper 銅	7440-50-8	For textiles and leather (including Cu metal complex dyed materials) 紡織品/皮革(包含銅絡合染料染色的紡 織品): Extractable content 可萃取含量:			Textiles and others 紡織品及 其他: DIN EN 16711-2 (2016) (acidic sweat solution 酸性汗 液) Leather 皮革: ISO 17072-1 (2011) (acidic sweat solution 酸性汗液)	
		25	50	50	-	
		For metal parts and non-metal parts others than textiles and leather: 金屬/非金屬部分 (紡織品/皮革外):				
		No regulation 不限				

This document has been drafted in English and translated into Chinese for convenience only. In the event of discrepancy, the English version shall prevail.

本文為英文編寫，為便於理解翻譯為中文。如中英文不一致時，以英文文本為準。

bluesign® system substances list 物質清單 (BSSL) | v10.0 | September 15, 2019

© bluesign technologies ag | www.bluesign.com



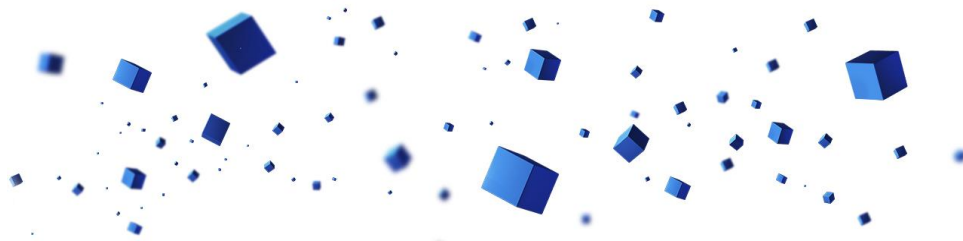
Metals 金屬						
Part 4 第四部分						
Chemical Substances 化學物質	CAS Number 化學品文摘號	Limit Value 限值 [mg/kg] Usage range 使用類別			Recommended Sample Preparation // Test Method 推薦樣品製備//測試方法	
		A	B	C		
Lead 鉛	7439-92-1	Usage ban 禁用				
		For textiles, plastics and leather 紡織品/塑膠/皮革 Traces 痕量 Extractable content 可萃取含量:			Textiles and others 紡織品及其他: DIN EN 16711-2 (2016) (acidic sweat solution 酸性溶液) Leather 皮革: ISO 17072-1 (2011) (acidic sweat solution 酸性溶液)	
		0.2	1.0	1.0		
		Traces 痕量 Total content 總含量: 40			Textiles and others 紡織品及其他: DIN EN 16711-1 (2016) (total content 總含量) Leather 皮革: ISO 17072-2	
		For metal parts 金屬部分 Traces 痕量 Total content 總含量: 90			DIN EN 16711-1 (2016) (total content 總含量)	
Mercury 汞	7439-97-6	Usage ban 禁用				
		For non-metal parts (textiles, leather and others): 非金屬部分(紡織品/皮革/其他): Extractable content 可萃取含量: 0.02			Textiles 紡織品: DIN EN 16711-2 (2016) (acidic sweat solution 酸性汗液) Leather 皮革: ISO 17072-1 (2011) (acidic sweat solution 酸性汗液)	
		For metal parts 金屬部分: Extractable content 可萃取含量: 60			EN 71-3 (2013) (acid solution simulating gastric juices 仿胃液 酸性溶液) // ISO 12846 (2012)	
Nickel 鎳	7440-02-0	For textiles and leather 紡織品/皮革 Extractable content 可萃取含量: 1.0			Textiles 紡織品: DIN EN 16711-2 (2016) (acidic sweat solution 酸性汗液) Leather 皮革: ISO 17072-1 (2011) (acidic sweat solution 酸性汗液)	
		For textiles and leather dyed with nickel containing metal complex dyes: 含鎳金屬絡合染料染色的紡織品和 皮革:				
		1.0	4.0	4.0		

This document has been drafted in English and translated into Chinese for convenience only. In the event of discrepancy, the English version shall prevail.

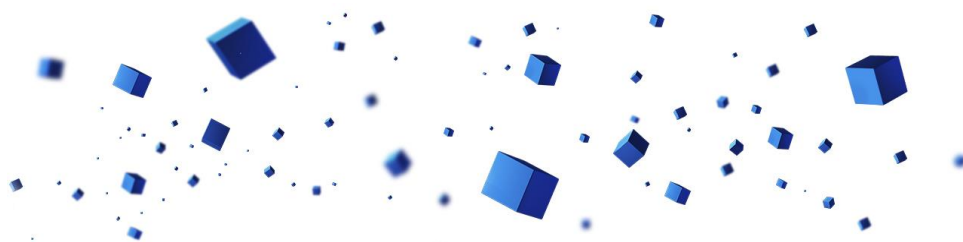
本文為英文編寫，為便於理解翻譯為中文。如中英文不一致時，以英文文本為準。

bluesign® system substances list 物質清單 (BSSL) | v10.0 | September 15, 2019

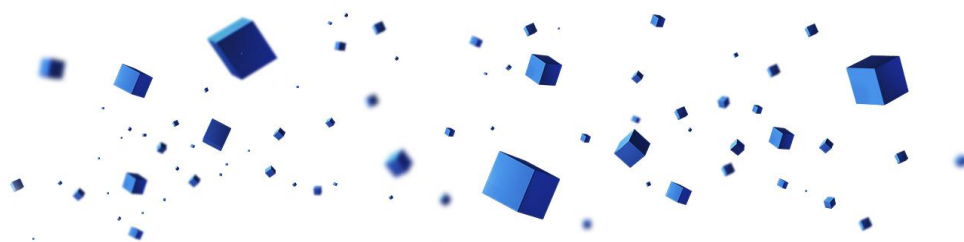
© bluesign technologies ag | www.bluesign.com



		<p>For metal parts and non-metal parts others than textiles and leather:</p> <p>除紡織品/皮革外金屬/非金屬部分:</p> <p>Usage ban for A and B:</p> <p>A 類和 B 類禁用:</p> <p>0.5 [<math>\mu\text{g}/\text{cm}^2/\text{week}</math>]</p>	<p>Release</p> <p>EN 12472 (2005)+A1(2009) //</p> <p>EN 1811 (2011)+A1(2015)</p>
--	--	----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	----------------------------------------------------------------------------------

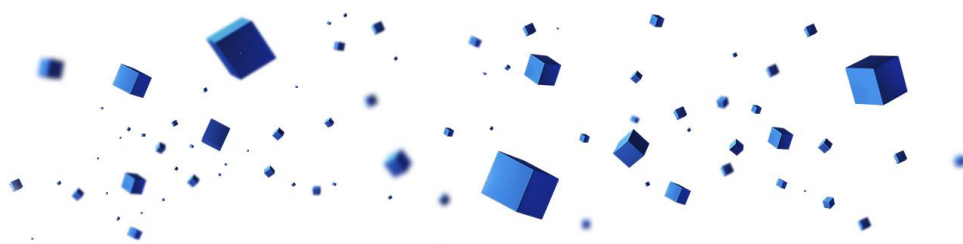


Metals 金屬					
Part 5 第五部分					
Chemical Substances 化學物質	CAS Number 化學品文摘號	Limit Value 限值 [mg/kg] Usage range 使用類別			Recommended Sample Preparation // Test Method 推薦樣品製備//測試方法
		A	B	C	
Selenium 硒	7782-49-2	500			EN 71-3 (2013) (acid solution simulating gastric juices 仿胃液酸性溶液) // ISO 17294-2 (2016) or DIN EN ISO 11885 (2009)
Silver 銀	7440-22-4	For textiles and leather: 紡織品/皮革: If used as antimicrobial active compound relevant bluesign® criteria have to be followed 用作抗菌劑時必須遵守 bluesign® criteria 抗菌化學品準則			-
		For metal parts and non-metal parts other than textiles and leather: 除紡織品/皮革外的金屬/ 非金屬部分: No regulation 不限			-



Monomers 單體					
Part 1 第一部分					
Chemical Substances 化學物質	CAS Number 化學品文摘號	Limit Value 限值 [mg/kg] Usage range 使用類別			Recommended Sample Preparation // Test Method 推薦樣品製備//測試方法
		A	B	C	
Acrylamide 丙烯醯胺	79-06-1	Usage ban 禁用 // DL 檢出極限: 1.0 Monitoring 監控			Textile 紡織品: Extraction with MeOH // HPLC 甲醇萃取 // HPLC Plastic 塑製品: 2-Step extraction with THF and MeOH // LC-MS 四氫呋喃和甲醇兩步萃取法// LC-MS
<b>Acrylates 丙烯酸酯類</b>	<b>Several 多個</b>				Headspace GC-MS (for acrylates) 頂空進樣 GC-MS (丙烯酸酯類)  Extraction with MeOH // HPLC (for acids) 甲醇萃取// HPLC (丙烯酸類)
Acrylic acid 丙烯酸	79-10-7	5	5	5	
Butyl acrylate 丙烯酸丁酯	141-32-2	10	50	100	
tert-Butylacrylate 丙烯酸叔丁酯	1663-39-4	10	10	100	
Butyl methacrylate 甲基丙烯酸丁酯	97-88-1	10	10	100	
Ethyl acrylate 丙烯酸乙酯	140-88-5	1.0	1.0	1.0	
2-Ethylhexyl acrylate 丙烯酸 2-乙基己基酯	103-11-7	50	50	100	
Ethyl methacrylate 甲基丙烯酸乙酯	97-63-2	10	10	100	
2-Hydroxyethyl methacrylate 甲基丙烯酸羟乙酯	868-77-9	50	50	100	
Methacrylic acid 甲基丙烯酸	79-41-4	10	50	100	
Methyl acrylate 丙烯酸甲酯	96-33-3	5	20	20	
Methyl methacrylate 甲基丙烯酸甲酯	80-62-6	10	10	100	
Octadecyl acrylate 丙烯酸十八酯	4813-57-4	50	50	100	
2-Phenoxyethyl acrylate 丙烯酸-2-苯氧基乙酯	48145-04-6	50	50	100	
Acrylonitrile 丙烯腈	107-13-1	Usage ban // DL: 1.0 禁用// 檢出極限: 1.0			EN 13130-3 (2004)
2-Chlorobuta-1,3-diene (Chloroprene) 氯丁二烯	126-99-8	Usage ban// DL: 1.0 禁用// 檢出極限: 1.0 Monitoring 監控			BVL B 80.68-1





Monomers 單體					
Part 2 第二部分					
Chemical Substances 化學物質	CAS Number 化學品文摘號	Limit Value 限值 [mg/kg] Usage range 使用類別			Recommended Sample Preparation // Test Method 推薦樣品製備//測試方法
		A	B	C	
4-Cyanocyclohexene 4-氰基-1-環己烷	100-45-8	50	50	50	Headspace GC-MS 頂空進樣 GC-MS
Epichlorohydrin 表氯醇	106-89-8	Usage ban // DL: 1.0 禁用 // 檢出極限: 1.0			CEN/TS 13130-20 (2005)
Methacrylamide 甲基丙烯醯胺	79-39-0	1.0	10	50	Textile 紡織品: 2-Step extraction with Acetone/Hexane and MeOH // GC-MS or LC-MS 丙酮/己烷和甲醇兩步萃取法// GC-MS 或 LC-MS  Plastics 塑製品: 3-Step extraction with THF, Acetone/Hexane (ASE or Soxhlet) and MeOH // GC-MS or LC-MS 四氫呋喃, 丙酮/己烷(加速法或 索氏法)和甲醇三步萃取法// GC-MS 或 LC-MS
N-Methylolacrylamide 經甲基丙烯醯胺	924-42-5	1.0	10	10	Textile 紡織品: 2-Step extraction with Acetone/Hexane and MeOH // GC-MS or LC-MS 丙酮/己烷和甲醇兩步萃取法// GC-MS or LC-MS  Plastics 塑製品: 3-Step extraction with THF, Acetone/Hexane (ASE or Soxhlet) and MeOH // GC-MS or LC-MS 四氫呋喃, 丙酮/己烷(加速法或 索氏法)和甲醇三步萃取法// GC-MS 或 LC-MS

This document has been drafted in English and translated into Chinese for convenience only. In the event of discrepancy, the English version shall prevail.

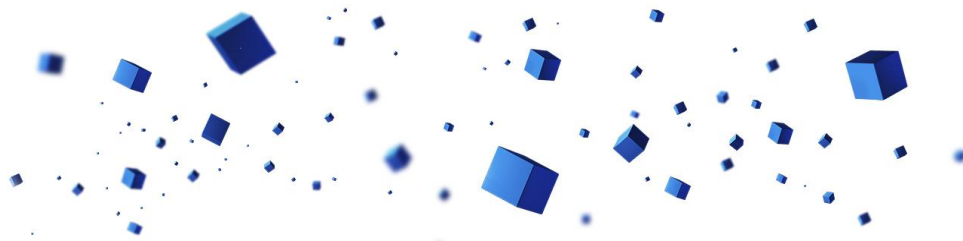
本文為英文編寫，為便於理解翻譯為中文。如中英文不一致時，以英文文本為準。

bluesign® system substances list 物質清單 (BSSL) | v10.0 | September 15, 2019

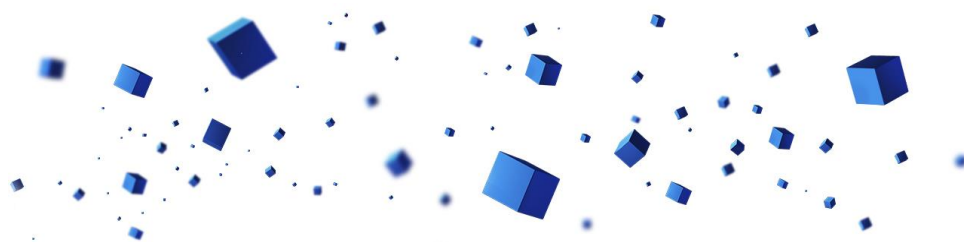
© bluesign technologies ag | www.bluesign.com



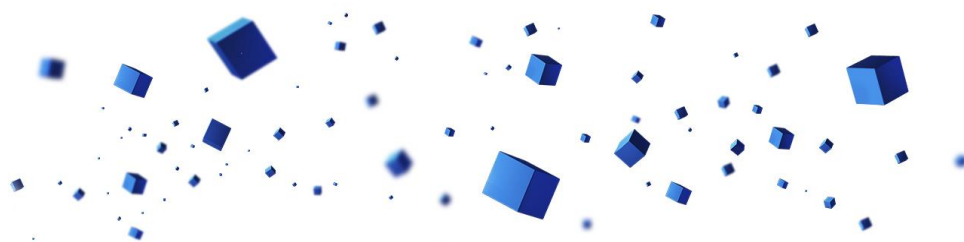
N-Vinyl-2-pyrrolidone N-乙烯基-2-吡咯烷酮	88-12-0	1.0	1.0	1.0	Extraction with MeOH // GC-MS or Headspace GC-MS 甲醇萃取// GC-MS 或頂空進樣 GC-MS
Styrene 苯乙烯	100-42-5	10	10	100	Headspace GC-MS 頂空進樣 GC-MS
Vinyl acetate 醋酸乙烯酯	108-05-4	10	50	50	Headspace GC-MS 頂空進樣 GC-MS
Vinyl chloride 氯乙烯	75-01-4	Usage ban // DL: 0.1 禁用 // 檢出極限: 0.1			ISO 6401 (2008)
Vinylidene chloride (1,1-Dichloroethylene) 偏二氯乙烯	75-35-4	10	10	10	EN 13130-6 (2004) Headspace GC-ECD, FID EN 1310-6(2004) 頂空進樣 GC-ECD, FID



Nitrosamines 亞硝胺類					
(as substance and as reaction product from secondary amines for example in elastomers or rubbers)					
例如在彈性體或橡膠中來自仲胺的化學物質或反應產物					
Chemical Substances 化學物質	CAS Number 化學品文摘號	Limit Value 限值 [mg/kg] Usage range 使用類別			Recommended Sample Preparation // Test Method 推薦樣品製備//測試方法
		A	B	C	
Nitrosamines 亞硝胺類	Several 多個	Usage ban // DL: 0.5 for every single listed substance 禁用// 檢出極限: 0.5 每單個物質			GB/T 24513 (2009) 或 prEN 19577 (2017)
N-Nitroso-di-n-butylamine N-亞硝基二正丁胺	924-16-3				
N-Nitroso-di-ethanolamine N-亞硝基二乙醇胺	1116-54-7				
N-Nitroso-di-ethylamine N-亞硝基二乙胺	55-18-5				
N-Nitroso-di-isopropylamine N-亞硝基-二異丙胺	601-77-4				
N-Nitroso-di-methylamine N-亞硝基-二甲胺	62-75-9				
N-Nitroso-di-benzylamine N-亞硝基-二-苯甲胺	5336-53-8				
N-Nitroso-di-isobutylamine N-亞硝基-二-異丁胺	997-95-5				
N-Nitroso-di-isononylamine N-亞硝基-二-異壬基胺	1207995-62-7				
N-Nitroso-di-n-propylamine N-亞硝基-二正丙胺	621-64-7				
N-Nitroso-ethylphenylamine N-亞硝基-乙基苯胺	612-64-6				
N-Nitroso-methylphenylamine N-亞硝基-甲基苯胺	614-00-6				
N-Nitroso-morpholine N-亞硝基-嗎啉	59-89-2				
N-Nitroso-piperidine N-亞硝基-哌啶	100-75-4				
N-Nitroso-pyrrolidine N-亞硝基-吡咯烷	930-55-2				



Other Chemical Substances 其他化學物質					
Part 1 第一部分					
Chemical Substances 化學物質	CAS Number 化學品文摘號	Limit Value 限值 [mg/kg] Usage range 使用類別			Recommended Sample Preparation // Test Method 推薦樣品製備//測試方法
		A	B	C	
Acetic acid 醋酸	64-19-7	100	1000	1000	Extraction with MeOH // LC-MS 甲醇萃取//LC-MS
Acetone oxime 丙酮肟	127-06-0	Monitoring 監控			Extraction with MeOH // GC-MS 甲醇萃取//GC-MS
Acetophenone 乙酮	98-86-2	20	20	20	Extraction with MeOH // GC-MS 甲醇萃取//GC-MS
Alkyl naphthalenes; all derivatives 烷基萘及其衍生物	Several 多個	Usage ban // DL: 1.0 禁用//檢出極限: 1.0			Extraction following IEC 62321-6 (2015) // GC-MS 按照 IEC 62321-6 (2015) 萃取// GC-MS
Ammonia 氨	7664-41-7	10	50	50	Extraction with deionized water // IC 去離子水萃取//IC
Azobenzene 偶氮苯	103-33-3	Usage ban // DL: 1.0 禁用//檢出極限: 1.0 Monitoring 監控			Extraction with MeOH // GC-MS or LC-MS 甲醇萃取//GC-MS 或 LC-MS
Benzyl alcohol 苯甲醇	100-51-6	10	100	100	Extraction with Acetone // GC-MS
Benzyl chloride 氯化苄	100-44-7	Usage ban // DL: 1.0 禁用//檢出極限: 1.0			Extraction with DCM or Headspace GC-MS 二氯甲烷萃取或頂空進樣 GC-MS
Biphenyl 聯苯	92-52-4	100	100	500	Extraction following IEC 62321-6 (2015) // GC-MS 按照 IEC 62321-6 (2015) 萃取 //GC-MS
Bisphenol A 雙酚 A	80-05-7	Usage ban for textile and leather // DL: 1.0 禁止用於紡織品和皮革// 檢出極限: 1.0  Others: 50 其他: 50			Extraction with MeOH // ISO 18857- 2 (2009) 甲醇萃取// ISO 18857-2 (2009)



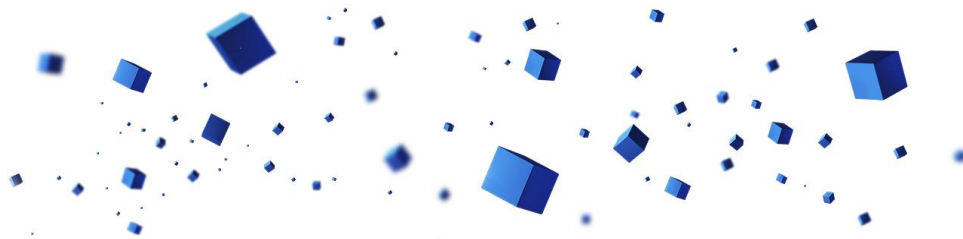
Other Chemical Substances 其他化學物質					
Part 2 第二部分					
Chemical Substances 化學物質	CAS Number 化學品文摘號	Limit Value 限值 [mg/kg] Usage range 使用類別			Recommended Sample Preparation // Test Method 推薦樣品製備//測試方法
		A	B	C	
<b>Boric acid and derivatives</b> 硼酸及其衍生物	<b>Several 多個</b>	Usage ban 禁用 100 for every single substance 每單個物質 100			Indirect testing via Boron (DL for Boron: 10 mg/kg) // ICP-OES or ICP-MS 間接法(硼的檢出極限: 10 mg/kg) // ICP-OES 或 ICP-MS
Borate, zinc salt 硼酸鋅	1332-07-6				
Boric acid 硼酸	10043-35-3 // 11113-50-1				
Diboron trioxide 三氧化二硼	1303-86-2				
Disodium tetraborate 四硼酸二鈉	1303-96-4 (decahydrate) 十水 1330-43-4 (anhydrous) 無水 12179-04-3 (pentahydrate) 五水				
Disodium octaborate anhydrous 無水八硼酸二鈉	12008-41-2 12280-03-4				
Orthoboric acid sodium salt 原硼酸鈉鹽	13840-56-7				
Perboric acid, sodium salt 過硼酸鈉鹽	11138-47-9 10332-33-9 12040-72-1 37244-98-7				
Sodium perborate 過硼酸鈉	15120-21-5				
Sodium perborate, anhydrous 無水過硼酸鈉	7632-04-4				
Tetraboron disodium heptaoxide, hydrate 水合七氧四硼酸二鈉	12267-73-1				
2-Butanone oxime 丁酮肟	96-29-7	1.0	10	100	Extraction with MeOH // GC- MS 甲醇萃取//GC-MS

This document has been drafted in English and translated into Chinese for convenience only. In the event of discrepancy, the English version shall prevail.

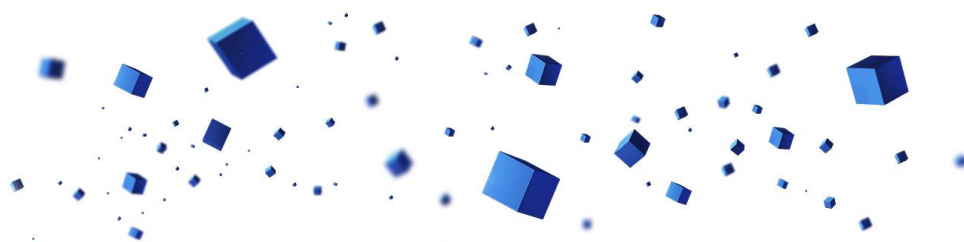
本文為英文編寫，為便於理解翻譯為中文。如中英文不一致時，以英文文本為準。

bluesign® system substances list 物質清單 (BSSL) | v10.0 | September 15, 2019

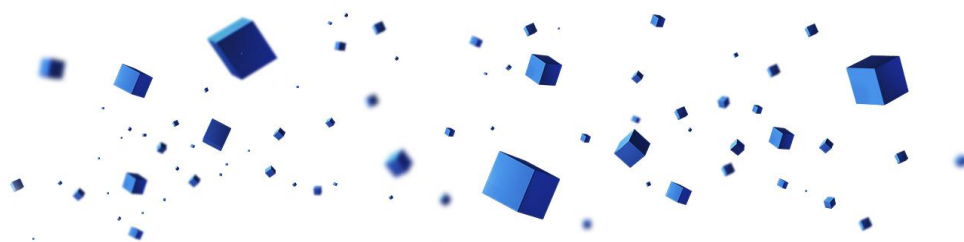
© bluesign technologies ag | www.bluesign.com



4-tert-Butyltoluene 4-叔丁基甲苯	98-51-1	Usage ban // DL: 1.0 禁用//檢出極限：1.0			Extraction with MeOH // GC-MS 甲醇萃取//GC-MS
2-Butyne-1,4-diol 丁炔二醇	110-65-6	1.0			Extraction with MeOH // GC-MS
		Monitoring 監控			甲醇萃取//GC-MS
ε-Caprolactam 己內醯胺	105-60-2	100	1000	1000	Extraction with MeOH // LC-MS 甲醇萃取//LC-MS
		Not in force for PA6 containing polymers (fibers, hot melt etc.) 對尼龍 6 (纖維，熱熔膠等)不作強制要求			

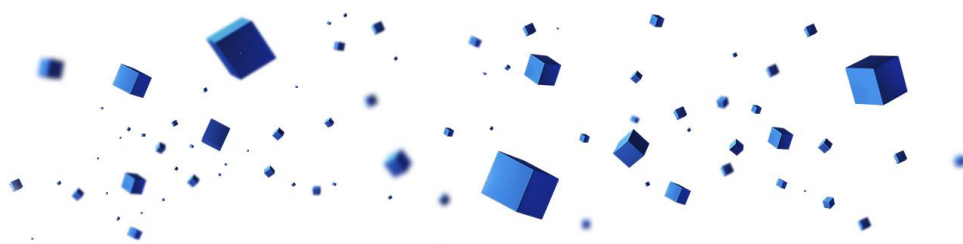


Other Chemical Substances 其他化學物質					
Part 3 第三部分					
Chemical Substances 化學物質	CAS Number 化學品文摘號	Limit Value 限值 [mg/kg] Usage range 使用類別			Recommended Sample Preparation // Test Method 推薦樣品製備//測試方法
		A	B	C	
2-Chloroethanol 2-氯乙醇	107-07-3	1.0	10	50	Extraction with MeOH or Headspace GC-MS 甲醇萃取//LC-MS 或 頂空進樣 GC-MS
Colophony (Rosin) 松香	8050-09-7	Usage ban // DL: 1.0 禁用// 檢出極限: 1.0 (abietic acid or hydroabietic acid) (松香酸或 氫化松香酸)			Extraction with MTBE, derivatisation // GC-MS 甲基叔丁基醚萃取, 衍生法 // GC-MS
Cresol, all isomers 甲酚及其異構體	1319-77-3	Usage ban // DL: 10 for every single listed substance 禁用 // 檢出極限: 每單個物質 10			Extraction with KOH 氫氧化鉀 萃取// § 64 LFGB B 82.02-8 (2001) or DIN EN ISO 17070 (2015)
m-Cresol 間甲酚	108-39-4				
o-Cresol 鄰甲酚	95-48-7				
p-Cresol 對甲酚	106-44-5				
Cyclohexanol 環己醇	108-93-0	10			Headspace GC-MS 頂空進樣 GC-MS
Cyclohexanone 環己酮	108-94-1	10			Headspace GC-MS 頂空進樣 GC-MS
D4-Siloxane (Octamethylcyclotetrasiloxane) 八甲基环六硅氧烷	556-67-2	Usage ban // DL: 10 禁用//檢出極限: 10			ASE with Acetone/Hexane // GC-MS 丙酮/正己烷加速萃取// GC-MS
D5-Siloxane (Decamethylcyclopentasiloxane) 十甲基环六硅氧烷	541-02-6	Usage ban // DL: 10 禁用//檢出極限:10 Monitoring 監控			
D6-Siloxane (Dodecamethylcyclohexasiloxane) 十二甲基环六硅氧烷	540-97-6	Usage ban // DL: 10 禁用//檢出極限 : 10 Monitoring 監控			
1,3-Dichloro-2-propanol 1,3-二氯-2-丙醇	96-23-1	Usage ban // DL: 1.0 禁用//檢出極限: 1.0			Headspace GC-MS 頂空進樣 GC-MS
Dimethylfumarate 二甲基富馬酸	624-49-7	Usage ban // DL: 0.1 禁用//檢出極限: 0.1			ISO/TS 16186 (2012) // GC-MS



3,5-Dimethylpyrazole 3,5 二甲基吡唑	67-51-6	Monitoring 監控			Extraction with MeOH // GC-MS 甲醇萃取//GC-MS
Dimethyl sulfate 硫酸二甲酯	77-78-1	Usage ban // DL: 1.0 禁用//檢出極限: 1.0			Headspace GC-MS 頂空進樣 GC-MS
2,4-Dinitrotoluene 2,4-二硝基甲苯	121-14-2	Usage ban // DL: 10 禁用//檢出極限: 10			Extraction with Toluene // GC-MS 甲苯萃取//LC-MS
1,4-Dioxane 1,4-二氧己環	123-91-1	1.0	5	10	Headspace GC-MS 頂空進樣 GC-MS
		Monitoring 監控			
Ethylbenzene 乙苯	100-41-4	500	500	1000	Headspace GC-MS 頂空進樣 GC-MS
Ethyleneimine 乙亞胺	151-56-4	Usage ban // DL: 1.0 禁用//檢出極限: 1.0			Headspace GC-MS 頂空進樣 GC-MS
2-Ethylhexanol 2-乙基己醇	104-76-7	50	200	500	Headspace GC-MS 頂空進樣 GC-MS





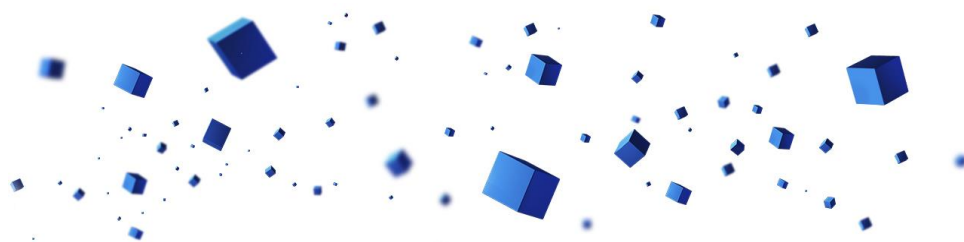
Other Chemical Substances 其他化學物質						
Part 4 第四部分						
Chemical Substances 化學物質	CAS Number 化學品文摘號	Limit Value 限值 [mg/kg] Usage range 使用類別			Recommended Sample Preparation // Test Method 推薦樣品製備//測試方法	
		A	B	C		
Formaldehyde oligomeric reaction product with aniline (polymeric MDA, MDA technical grade) 甲醛和苯胺的低聚反應產物	25214-70-4	Usage ban // DL: 20 禁用//檢出極限: 20			Indirect testing via Diaminodiphenylmethane // LC-MS 二氨基二苯甲烷間接法//LC-MS	
Formamide 甲酰胺	75-12-7	Usage ban 禁用 Traces 痕量:			Extraction with MeOH* // GC-MS *cut the sample into small pieces (2x2mm) 甲醇萃取*/GC-MS *測試樣製備: 剪成 2x2mm	
		50	50	100		
Formic acid 甲酸	64-18-6	10	10	100	Extraction with MeOH // LC-MS 甲醇萃取//LC-MS	
<b>Hydrazine, its salts and hydrates</b> 聯胺，及其鹽和水合物	<b>Several 多個</b>	Usage ban 禁用				
Hydrazine 聯胺	302-01-2	Traces: 1.0 痕量: 1.0			Extraction with THF/Acetone // GC-MS 四氫呋喃/丙酮萃取// GC-MS	
Hydrofluoric acid 氫氟酸	7664-39-3	1.0			Extraction with water and measurement of fluorine or fluoride // GC-MS or IC 水萃取並測定氟或氟化物含量 // GC-MS 或 IC	
4-Hydroxy-4-methylpentane-2-one 二丙酮醇	123-42-2	20	100	100	Headspace GC-MS 頂空進樣 GC-MS	
Isoquinoline 異喹啉	119-65-3	Usage ban// Traces: 50 Valid from July 2021 禁用//痕量 : 50 自 2021 年 7 月生效			Extraction with Methanol or THF // LC-MS/MS or LC-DAD 甲醇或四氫呋喃萃取// LC-MS/MS 或 LC-DAD	
Mercaptobenzothiazole and salts 巯基苯並噻唑及鹽	149-30-4	Usage ban for A in natural and synthetic rubber (DL: 5.0); B and C: 200 禁用在 A 類的天然和合成橡膠 (檢出極限:5.0) B 和 C 類 : 200			DIN EN ISO 105-E04 (2013) (acidic sweat solution 酸性汗液) // LC-MS	

This document has been drafted in English and translated into Chinese for convenience only. In the event of discrepancy, the English version shall prevail.

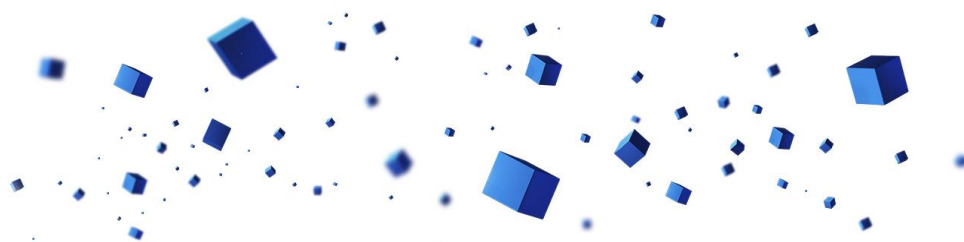
本文為英文編寫，為便於理解翻譯為中文。如中英文不一致時，以英文文本為準。

bluesign® system substances list 物質清單 (BSSL) | v10.0 | September 15, 2019

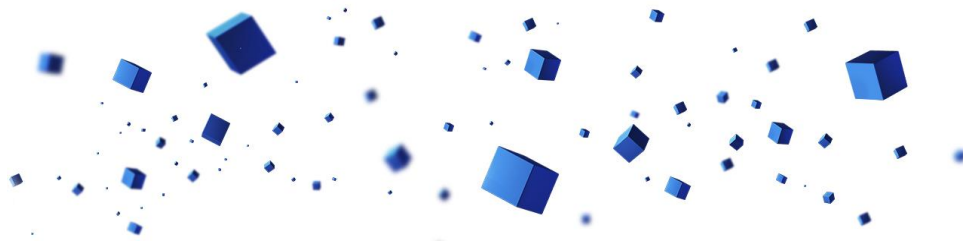
© bluesign technologies ag | www.bluesign.com



Methanol 甲醇	67-56-1	10			Headspace GC-MS 頂空進樣 GC-MS
2-Methylaziridine (Propylenimine) 2-甲基氮丙啶	75-55-8	Usage ban // DL: 1.0 禁用// 檢出極限：1.0			Headspace GC-MS 頂空進樣 GC-MS
Methyl chloride 氯甲烷	74-87-3	1.0	1.0	1.0	Headspace GC-MS 頂空進樣 GC-MS
N-Cyclohexyl-2-pyrrolidone N-環己基-2 吡咯烷酮	6837-24-7	20	200	200	Extraction with MeOH // GC-MS 甲醇萃取//GC-MS
<b>1-Nitropropane/2-Nitropropane</b> <b>1-硝基丙烷/2-硝基丙烷</b>	<b>Several 多個</b>				Headspace GC-MS 頂空進樣 GC-MS
1-Nitropropane 1-硝基丙烷	108-03-2	1.0			
2-Nitropropane 2-硝基丙烷	79-46-9	Usage ban // DL: 1.0 禁用//檢出極限：1.0			
Phenol 苯酚	108-95-2	10	50	100	Extraction with MeOH // GC-MS or LC-MS 甲醇萃取//GC-MS 或 LC-MS
4-Phenylcyclohexene 4-苯基環乙烯	4994-16-5	10	10	50	Extraction with MeOH or Headspace GC-MS 甲醇萃取或頂空進樣 GC-MS

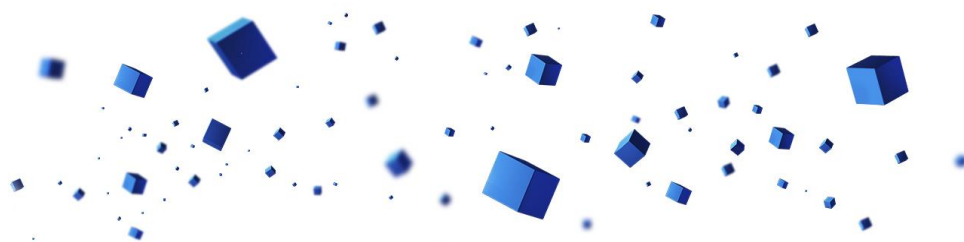


Other Chemical Substances 其他化學物質					
Part 5 第五部分					
Chemical Substances 化學物質	CAS Number 化學品文摘號	Limit Value 限值 [mg/kg] Usage range 使用類別			Recommended Sample Preparation // Test Method 推薦樣品製備//測試方法
		A	B	C	
2-Phenyl-2-propanol 2-苯基異丙醇	617-94-7	1.0	10	10	Extraction with MeOH // GC-MS 甲醇萃取//GC-MS
Potassium bromate 溴酸鉀	7758-01-2	Usage ban // DL: 10 禁用 // 檢出極限: 10			Extraction with Potassium carbonate solution // IC 碳酸鉀萃取 // IC
Quinoline 喹啉	91-22-5	Usage ban// Traces: 50 禁用 // 痕量: 50			Extraction with Methanol or THF // LC-MS/MS or LC-DAD 甲醇或四氫呋喃萃取 // LC-MS/MS 或 LC-DAD
Sodium bromated 溴酸鈉	7789-38-0	Usage ban // DL: 10 禁用 // 檢出極限: 10			Extraction with Potassium carbonate solution // IC 碳酸鉀萃取 // IC
<b>Terpene hydrocarbons 萜烯</b>		Usage ban // DL: 1.0 for every single listed substance 禁用 // 檢出極限: 每單個物質 1.0			Headspace GC-MS 頂空進樣 GC-MS
D-Limonene 右旋檸檬烯	5989-27-5				
DL-Limonene 消旋檸檬烯	138-86-3				
L-Limonene 左旋檸檬烯	5989-54-8				
Thiourea 硫脲	62-56-6	Usage ban // DL: 5.0 禁用 // 檢出極限: 5.0			Extraction with MeOH // LC-MS 甲醇萃取//LC-MS
Tri-iso-butylphosphate 磷酸三異丁酯	126-71-6	10	50	50	Extraction following IEC 62321-6 (2015) // GC-MS 按照 IEC 62321-6 (2015) // GC-MS 萃取
Tri-n-butylphosphate 磷酸三丁酯	126-73-8	10	50	50	Extraction following IEC 62321-6 (2015) // GC-MS 按照 IEC 62321-6 (2015) // GC-MS 萃取
4-Vinylcyclohexene 4-乙烯基環己烯	100-40-3	1.0			Headspace GC-MS 頂空進樣 GC-MS



Ozone Depleting Substances 臭氧消耗物質					
Chemical Substances 化學物質	CAS Number 化學品文摘號	Limit Value 限值 [mg/kg] Usage range 使用類別			Recommended Sample Preparation // Test Method 推薦樣品製備//測試方法
		A	B	C	
<b>Ozone depleting substances (CFCs) class I</b> (Single substances listed in Annex I) 臭氧消耗物質類別 I (各別物質詳見附錄 I)	<b>Several 多個</b>	Usage ban for direct use in manufacturing of articles //  DL: 0.1 for every single substance 禁止直接使用於生產// 檢出極限: 每單個物質 0.1			Headspace GC-MS 頂空進樣 GC-MS
<b>Ozone depleting substances (CFCs) class II</b> (Single substances listed in Annex I) 臭氧消耗物質類 II (各別物質詳見附錄 I)	<b>Several 多個</b>				

Pesticides 殺蟲劑					
Chemical Substances 化學物質	CAS Number 化學品文摘號	Limit Value 限值 [mg/kg] Usage range 使用類別			Recommended Sample Preparation // Test Method 推薦樣品製備//測試方法
		A	B	C	
<b>Pesticides</b> (Single substances listed in Annex I) 殺蟲劑 (各別物質詳見附錄 I)	<b>Several 多個</b>	Usage ban // 0.5 mg/kg limit value applies to total sum of all pesticides 禁用 // 各殺蟲劑總和 不得超過 0.5 mg/kg			ASE or Soxhlet Extraction with Acetone/Hexane // GC-MS or LC-MC 用丙酮/己烷加速萃取或索氏萃 取// GC-MS 或 LC-MC



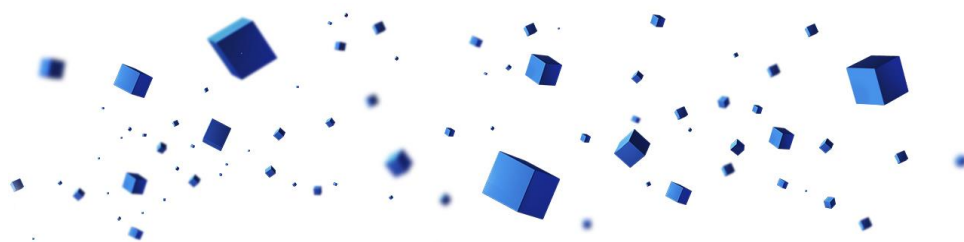
Plasticizers 塑化劑				
Part 1 第一部分				
Chemical Substances 化學物質	CAS Number 化學品文摘號	Limit Value 限值 [mg/kg] Usage range 使用類別		
		A	B	C
Di-(2-ethylhexyl) adipate (DEHA) 己二酸二(2-乙基己)酯	103-23-1	Monitoring 監控		
<b>Phthalic acid esters</b> 鄰苯二甲酸酯	<b>Several 多個</b>	Usage ban // Traces: 50 for every single substance  禁用 // 痕量: 每單個物質 50		
1,2-Benzenedicarboxylic acid, di-C <sub>6-8</sub> - branched alkyl esters, C <sub>7</sub> -rich (DIHP) 鄰苯二甲酸二異庚酯	71888-89-6			
1,2-Benzenedicarboxylic acid, benzyl C <sub>7-9</sub> - branched and linear alkyl esters 鄰苯二甲酸苄(C <sub>7-9</sub> 支鏈與直鏈)烷基酯	68515-40-2			
1,2-Benzenedicarboxylic acid, di-C <sub>7-11</sub> - branched and linear alkyl esters (DHNUP) 鄰苯二甲酸二(C <sub>7-11</sub> 支鏈與直鏈)烷基酯	68515-42-4			
1,2-Benzenedicarboxylic acid, dipentyl ester, branched and linear 鄰苯二甲酸戊基異戊酯, 支鏈與直鏈	84777-06-0			
1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear 鄰苯二甲酸戊基異己酯, 支鏈與直鏈	68515-50-4			
1,2-Benzenedicarboxylic acid, di-C <sub>6-10</sub> -alkyl esters 鄰苯二甲酸二(C <sub>6-10</sub> )烷基酯	68515-51-5			
1,2-Benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters 鄰苯二甲酸混(癸基, 己基, 辛基)酯	68648-93-1			
Bis-(2-methoxyethyl) phthalate (DMEP) 鄰苯二甲酸二甲氧乙酯	117-82-8			
Butylbenzyl phthalate (BBP) 鄰苯二甲酸丁苄酯	85-68-7			
Dimethyl phthalate (DMP) 鄰苯二甲酸二甲酯	131-11-3			
Diethyl phthalate (DEP) 鄰苯二甲酸二乙酯	84-66-2			
Dibutyl phthalate (DBP) 鄰苯二甲酸二丁酯	84-74-2			
		ISO 14389 (2014)		

This document has been drafted in English and translated into Chinese for convenience only. In the event of discrepancy, the English version shall prevail.

本文為英文編寫，為便於理解翻譯為中文。如中英文不一致時，以英文文本為準。

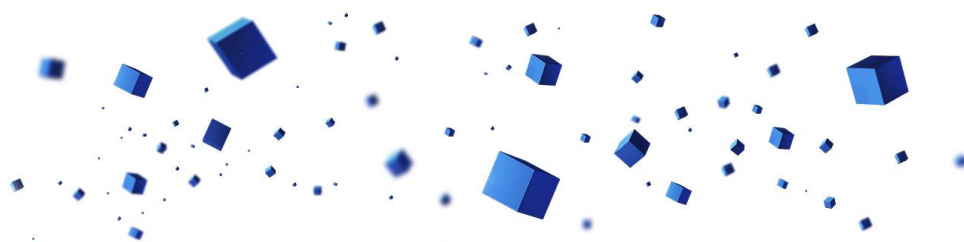
bluesign® system substances list 物質清單 (BSSL) | v10.0 | September 15, 2019

© bluesign technologies ag | www.bluesign.com



Dinonyl phthalate (DNP) 鄰苯二甲酸二壬酯	84-76-4		
Diethylhexyl phthalate (DEHP) 鄰苯二甲酸二辛酯	117-81-7		
Diisobutyl phthalate (DIBP) 鄰苯二甲酸二異丁酯	84-69-5		
Diisopentyl phthalate (DIPP) 鄰苯二甲酸二異戊酯	605-50-5		
Diisohexyl phthalate (DIHxP) 鄰苯二甲酸二異己酯	71850-09-4		
Diisooctyl phthalate (DIOP) 鄰苯二甲酸二異辛酯	27554-26-3		
Diisononyl phthalate (DINP) 鄰苯二甲酸二異壬酯	28553-12-0 68515-48-0		
Diisodecyl phthalate (DIDP) 鄰苯二甲酸二異癸酯	26761-40-0 68515-49-1		

Plasticizers 塑化劑					
Part 2 第二部分					
Chemical Substances 化學物質	CAS Number 化學品文摘號	Limit Value 限值 [mg/kg] Usage range 使用類別			Recommended Sample Preparation // Test Method 推薦樣品製備//測試方法
		A	B	C	
Di-n-propyl phthalate (DPRP) 鄰苯二甲酸二丙酯	131-16-8	Usage ban // Traces: 50 for every single substance  禁用 // 痕量: 每單個物質 50			ISO 14389 (2014)
Di-n-pentyl phthalate (DnPP) 鄰苯二甲酸二戊酯	131-18-0				
Di-n-hexyl phthalate (DnHP) 鄰苯二甲酸二己酯	84-75-3				
Di-n-octyl phthalate (DnOP) 鄰苯二甲酸二辛酯	117-84-0				
Di-cyclohexyl phthalate (DCHP) 鄰苯二甲酸二環己酯	84-61-7				
n-Pentyl-isopentyl phthalate 正戊基異戊基鄰苯二甲酸酯	776297-69-9				
Phthalic acid and derivatives (others than esters) 鄰苯二甲酸及其衍生物(非酯類)					
Phthalic acid anhydride 鄰苯二甲酸酐	85-44-9	200	1000	1000	ISO 14389 (2014)



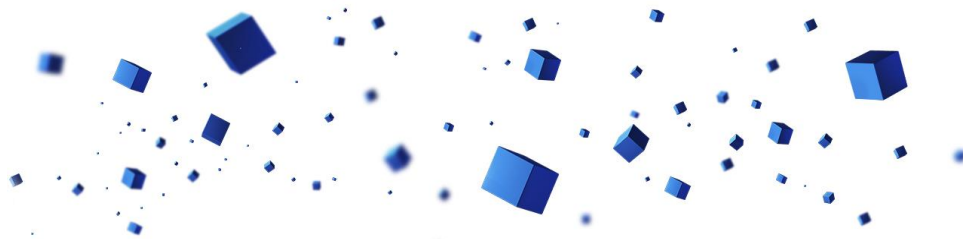
Polyaromatic Hydrocarbons (PAHs) 多環芳香烴					
Chemical Substances 化學物質	CAS Number 化學品文摘號	Limit Value 限值 [mg/kg] Usage range 使用類別			Recommended Sample Preparation // Test Method 推薦樣品製備//測試方法
		A	B	C	
Polyaromatic hydrocarbons (PAHs) 多環芳香烴	Several 多個	Usage ban // Traces: for sum of all PAHs: 10 禁用//痕量： 所有 PAHs 的總和不得 超過 10			EPA 8310  EPA 8270D  EPA 8275A  AfPS GS 2014:01
Benzo(a)pyrene 苯并(a)芘	50-32-8	Traces 痕量: 0.2			
Benzo(e)pyrene 苯并(e)芘	192-97-2	Traces 痕量:			
		0.5	1.0	1.0	
Benzo(a)anthracene 1,2-苯並蒽	56-55-3	Traces 痕量:			
		0.5	1.0	1.0	
Chrysene 1,2-苯並菲	218-01-9	Traces 痕量:			
		0.5	1.0	1.0	
Benzo(b)fluoroanthene 苯並(b)熒蒽	205-99-2	Traces 痕量:			
		0.5	1.0	1.0	
Benzo(j)fluoroanthene 苯並(j)熒蒽	205-82-3	Traces 痕量:			
		0.5	1.0	1.0	
Benzo(k)fluoroanthene 苯並(k)熒蒽	207-08-9	Traces 痕量:			
		0.5	1.0	1.0	
Dibenzo(a,h)anthracene 二苯蒽	53-70-3	Traces 痕量:			
		0.5	1.0	1.0	
Acenaphthene 芴	83-32-9				
Acenaphthylene 芴烯	208-96-8				
Anthracene 蒽	120-12-7				
Benzo(ghi)perylene 苯並(g,h,i)芘	191-24-2				
Fluoranthene 熒蒽	206-44-0				
Fluorene 芴	86-73-7				
Indeno(1,2,3-cd)pyrene 茚並(1,2,3-cd)芘	193-39-5				

This document has been drafted in English and translated into Chinese for convenience only. In the event of discrepancy, the English version shall prevail.

本文為英文編寫，為便於理解翻譯為中文。如中英文不一致時，以英文文本為準。

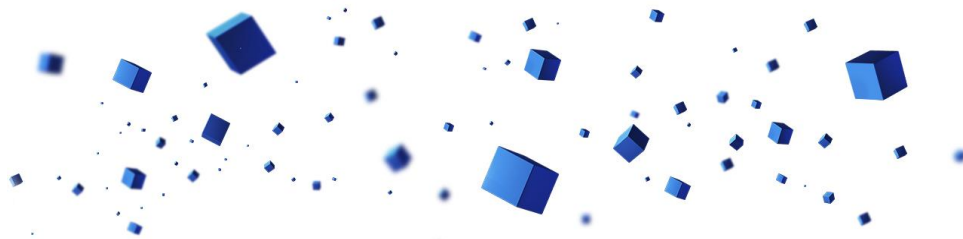
bluesign® system substances list 物質清單 (BSSL) | v10.0 | September 15, 2019

© bluesign technologies ag | www.bluesign.com

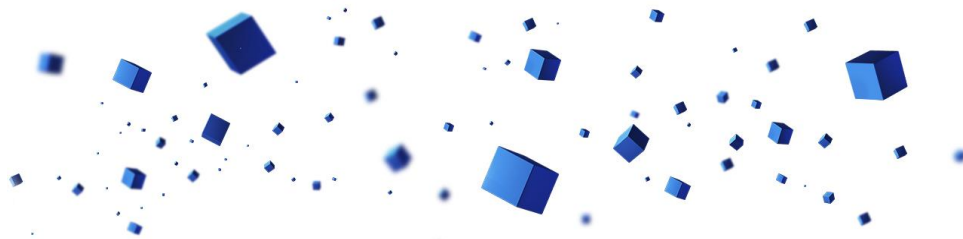


Naphthalene 萘	91-20-3		
Phenanthrene 菲	85-01-8		
Pyrene 芘	129-00-0		





Polymers 高分子聚合物					
Chemical Substances 化學物質	CAS Number 化學品文摘號	Limit Value 限值 [mg/kg] Usage range 使用類別			Recommended Sample Preparation // Test Method 推薦樣品製備//測試方法
		A	B	C	
Polyvinyl chloride (PVC) 聚氯乙烯	9002-86-2	Usage ban for A and B // Not detected A 類和 B 類禁用 // 不得檢出  Usage range C // bluesign technologies reserves the right to make a single decision for special applications C 類 // bluesign technologies 保留針對特殊用途制定特別 措施的權利			Beilstein test* // FTIR 贝尔斯登试验* // FTIR  *FTIR measurement only if result of Beilstein test was positive *如贝尔斯登试验顯陽性, 進行 FTIR 檢測
Polyvinylidenchloride (PVDC) 聚偏二氯乙烯樹脂	9002-85-1	Usage ban for A and B // Not detected A 類和 B 類禁用 // 不得檢出  Usage range C // bluesign technologies reserves the right to make a single decision for special applications C 類 // bluesign technologies 保留針對特殊用途制定特別 措施的權利			Beilstein test* // FTIR 贝尔斯登试验* // FTIR  *FTIR measurement only if result of Beilstein test was positive *如贝尔斯登试验顯陽性, 需進 行 FTIR 檢測



Solvents 有機溶劑					
Part 1 第一部分					
Chemical Substances 化學物質	CAS Number 化學品文摘號	Limit Value 限值 [mg/kg] Usage range 使用類別			Recommended Sample Preparation // Test Method 推薦樣品製備//測試方法
		A	B	C	
Acetone 丙酮	67-64-1	10	10	100	Headspace GC-MS 頂空進樣 GC-MS
Benzene 苯	71-43-2	Usage ban // DL: 5.0 禁用 // 檢出極限: 5.0			VDA 278 (2011)
<b>Benzine/Gasoline</b> 輕質汽油/汽油	<b>Several 多個</b>				
Benzine 輕質汽油	8032-32-4	Usage ban in manufacturing (e.g. white spirit printing) // DL: 1.0 生產中禁止使用(如石油 溶劑油印花)// 檢出極限: 1.0			Headspace GC-MS 頂空進樣 GC-MS
Gasoline 汽油	8006-61-9	Usage ban in manufacturing (e.g. white spirit printing) // DL: 1.0 生產中禁止使用(如石油 溶劑油印花)// 檢出極限: 1.0			Headspace GC-MS 頂空進樣 GC-MS
Carbon disulfide 二硫化碳	75-15-0	5.0	10	10	Headspace GC-MS 頂空進樣 GC-MS
<b>Chlorinated ethanes, all isomers</b> 氯代乙烷及其所有異構體	<b>Several 多個</b>	Usage ban // DL: 1.0 for every single substance 禁用 // 檢出極限: 每單個物質 1.0			Headspace GC-MS 頂空進樣 GC-MS
1,1,1-Trichloroethane 1,1,1-三氯乙烷	71-55-6				
1,1,2-Trichloroethane 1,1,2-三氯乙烷	79-00-5				
1,1,1,2-Tetrachloroethane 1,1,1,2-四氯乙烷	630-20-6				
1,1,2,2-Tetrachloroethane 1,1,2,2-四氯乙烷	79-34-5				
Pentachloroethane 五氯乙烷	76-01-7				
Hexachloroethane 六氯乙烷	67-72-1				
Cyclohexane 環己烷	110-82-7	10			Headspace GC-MS 頂空進樣 GC-MS
1,2-Dichloroethane 1,2-二氯乙烷	107-06-2	Usage ban // DL: 1.0 禁用 // 檢出極限: 1.0			Headspace GC-MS 頂空進樣 GC-MS

This document has been drafted in English and translated into Chinese for convenience only. In the event of discrepancy, the English version shall prevail.

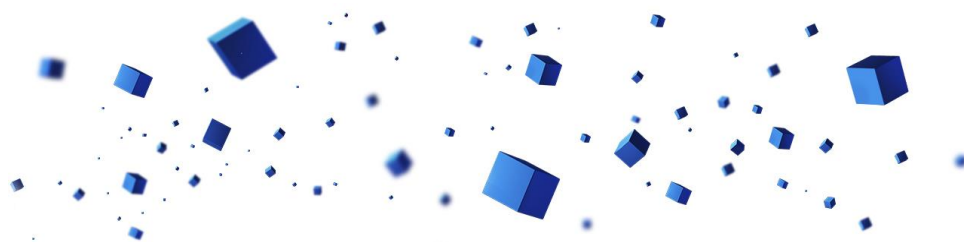
本文為英文編寫，為便於理解翻譯為中文。如中英文不一致時，以英文文本為準。

bluesign® system substances list 物質清單 (BSSL) | v10.0 | September 15, 2019

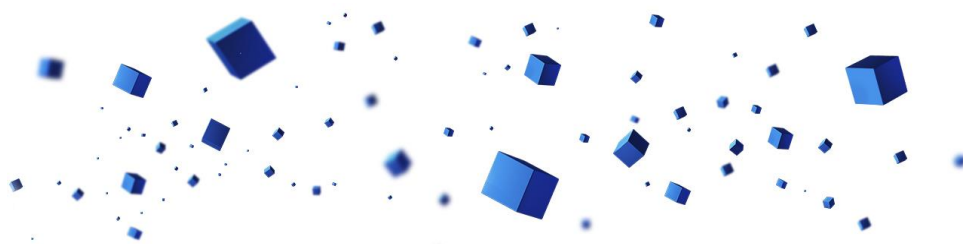
© bluesign technologies ag | www.bluesign.com



Dichloromethane 二氯甲烷	75-09-2	Usage ban for direct use in manufacturing of articles // DL: 5.0 禁止直接使用於生產中 //檢出極限: 5.0			Headspace GC-MS 頂空進樣 GC-MS
Dimethyl sulfoxide (DMSO) 二甲亞砜	67-68-5	500	1000	1000	Headspace or Extraction with MeOH // GC-MS 頂空進樣或甲醇萃取//GC-MS
Hexachlorobutadiene 六氯丁二烯	87-68-3	Usage ban // DL: 10 禁用 // 檢出極限: 10			Extraction with DCM // GC-MS 二氯甲烷萃取//GC-MS
N-ethyl-2-pyrrolidone (NEP) N-乙基-2-吡咯烷酮	2687-91-4	Usage ban 禁用 Traces 痕量:			CEN ISO/TS 16189 (2013)
		10	10	100	



Solvents 有機溶劑						
Part 2 第二部分						
Chemical Substances 化學物質	CAS Number 化學品文摘號	Limit Value 限值 [mg/kg] Usage range 使用類別			Recommended Sample Preparation // Test Method 推薦樣品製備//測試方法	
		A	B	C		
n-Hexane 正己烷	110-54-3	Usage ban in textile finishing//DL: 1.0 禁用於紡織品整理 // 檢出極限: 1.0			Headspace GC-MS 頂空進樣 GC-MS	
		Non-textile articles 非紡織品 Traces 痕量:				
		1.0	10	10		
N-Methylpyrrolidone (NMP) N-甲基吡咯烷酮	872-50-4	Usage ban 禁用 Traces 痕量:			CEN ISO/TS 16189 (2013)	
		10	10	100		
		Aramid fibers: bluesign technologies reserves the right to make a single decision for special applications 芳綸: bluesign technologies 保留針對特殊用途制定特別措施的權利				
N,N-Dimethylacetamide (DMAc) 二甲基乙醯胺	127-19-5	Usage ban with exception of fiber manufacturing 除纖維生產外禁用 // DL 檢出極限: 5.0			CEN ISO/TS 16189 (2013)	
		For fiber manufacturing (residual fiber solvent in elastane and PAN): 氨綸和腈綸纖維上殘留限值:				
		10	50	50		
		Monitoring for elastane and PAN fibers 監控(氨綸/腈綸纖維)				
		Aramid fibers: for special applications bluesign technologies has the right to make an individual decision 芳綸: bluesign technologies 保留針對特殊用途制定特別措施的權利				



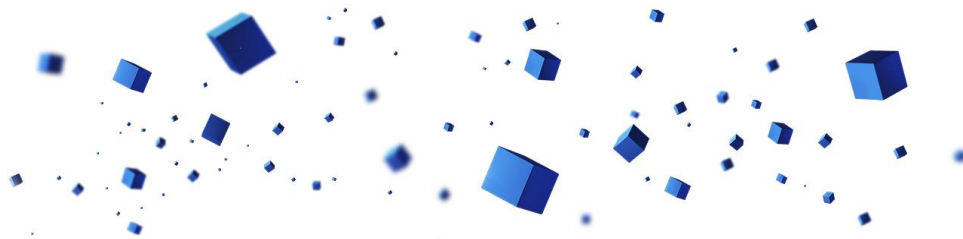
Solvents 有機溶劑						
Part 3 第三部分						
Chemical Substances 化學物質	CAS Number 化學品文摘號	Limit Value 限值 [mg/kg] Usage range 使用類別			Recommended Sample Preparation // Test Method 推薦樣品製備//測試方法	
		A	B	C		
N,N-Dimethylformamide (DMF) 二甲基甲醯胺	68-12-2	Usage ban with exception of solvent coating, laminating, fiber manufacturing // DL: 5.0 除溶劑塗層、貼合和纖維生產外禁用 // 檢出極限: 5.0			CEN ISO/TS 16189 (2013)	
		For solvent coating, laminating, fiber manufacturing: 50 溶劑塗層、貼合和纖維生產: 50				
		PAN fibers: for special applications bluesign technologies has the right to make an individual decision 腈綸纖維: bluesign technologies 保留針對特殊用途制定特別措施的權利				
n-Pentane n-戊烷	109-66-0	10	50	50	Headspace GC-MS 頂空進樣 GC-MS	
Tetrachloroethylene (Perchloroethylene) 四氯乙烯	127-18-4	Usage ban with exception of dry cleaning // DL: 1.0 除乾洗外禁用 // 檢出極限: 1.0			Headspace GC-MS 頂空進樣 GC-MS	
		In case of dry cleaning: 10 乾洗: 10				
Tetrahydrofuran 四氫呋喃	109-99-9	10			Headspace GC-MS 頂空進樣 GC-MS	
Toluene 甲苯	108-88-3	10	50	50	Headspace GC-MS 頂空進樣 GC-MS	
Trichloroethylene 三氯乙烯	79-01-6	Usage ban // DL: 5.0 禁用 // 檢出極限: 5.0			Headspace GC-MS 頂空進樣 GC-MS	
Trichloromethane (Chloroform) 三氯甲烷(氯仿)	67-66-3	Usage ban // DL: 5.0 禁用 // 檢出極限: 5.0			Headspace GC-MS 頂空進樣 GC-MS	
1,2,3-Trichloropropane 1,2,3-三氯丙烷	96-18-4	Usage ban // DL: 5.0 禁用 // 檢出極限: 5.0			Headspace GC-MS 頂空進樣 GC-MS	

This document has been drafted in English and translated into Chinese for convenience only. In the event of discrepancy, the English version shall prevail.

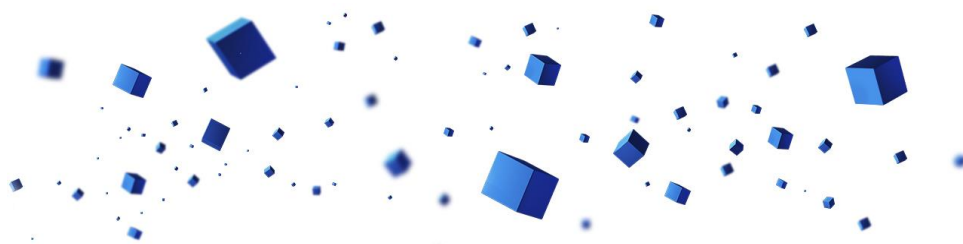
本文為英文編寫，為便於理解翻譯為中文。如中英文不一致時，以英文文本為準。

bluesign® system substances list 物質清單 (BSSL) | v10.0 | September 15, 2019

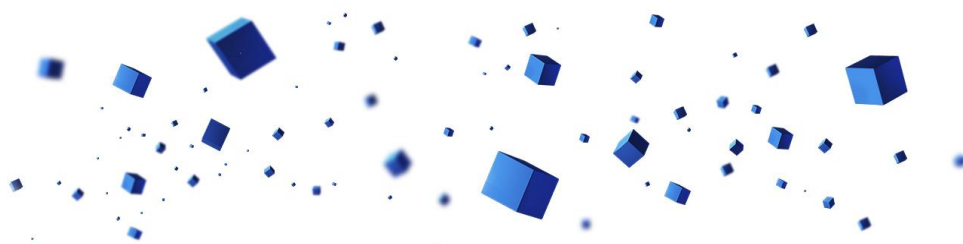
© bluesign technologies ag | www.bluesign.com



Trimethylbenzenes, all isomers 三甲苯及其異構體	25551-13-7	50	100	100	Headspace GC-MS 頂空進樣 GC-MS
1,2,3-Trimethylbenzene 1,2,3-三甲苯	526-73-8				
1,2,4-Trimethylbenzene 1,2,4-三甲苯	95-63-6	for every single listed substance 每單個物質			
1,3,5-Trimethylbenzene 1,3,5-三甲苯	108-67-8				



Solvents 有機溶劑					
Part 4 第四部分					
Chemical Substances 化學物質	CAS Number 化學品文摘號	Limit Value 限值 [mg/kg] Usage range 使用類別			Recommended Sample Preparation // Test Method 推薦樣品製備//測試方法
		A	B	C	
Xylene, all isomers 二甲苯及異構體	1330-20-7	Usage ban in textile finishing // DL: 1.0 for every single substance 禁用於紡織品後整理 // 檢出極限: 每單個物質 1.0			Headspace GC-MS 頂空進樣 GC-MS
m-Xylene 間二甲苯	108-38-3	Non-textile articles 非紡織品 Traces 痕量:			
o-Xylene 鄰二甲苯	95-47-6	1.0	10	10	
p-Xylene 對二甲苯	106-42-3				



Tin-organic Compounds 有機錫化合物 as mono-, di-, tri-, tetraalkyltin organics 單-, 二-, 三-, 四烷基錫的有機物					
Chemical Substances 化學物質	CAS Number 化學品文摘號	Limit Value 限值 [mg/kg] Usage range 使用類別			Recommended Sample Preparation // Test Method 推薦樣品製備//測試方法
		A	B	C	
Tin-organic compounds 有機錫化合物	Several 多個	Usage ban 禁用			ISO/TS 16179 (2012)
Monomethyltin compounds (MMT) 單甲基錫化合物	Several 多個	Traces 痕量: 2.0			
Monobutyltin compounds (MBT) 單丁基錫化合物	Several 多個	Traces 痕量: 1.0			
Monophenyltin compounds (MPhT) 單苯錫化合物	Several 多個	Traces 痕量: 1.0			
Monooctyltin compounds (MOT) 單辛基錫化合物	Several 多個	Traces 痕量: 2.0			
Dimethyltin compounds (DMT) 二甲基錫化合物	Several 多個	DL 檢出極限: 0.5			
Dipropyltin compounds (DPT) 二丙基錫化合物	Several 多個	Traces 痕量: 1.0			
Dibutyltin compounds (DBT) 二丁基錫化合物	Several 多個	Traces 痕量: 1.0			
Dibutyltin dichloride (DBTC) 二氯二丁基錫	683-18-1	Traces 痕量: 1.0			
Diphenyltin compounds (DPhT) 二苯錫化合物	Several 多個	Traces 痕量: 2.0			
Diocetyl tin compounds (DOT) 二辛基錫化合物	Several 多個	Traces 痕量: 1.0			
Trimethyltin compounds (TMT) 三甲基錫化合物	Several 多個	DL 檢出極限: 0.5			
Tripropyltin compounds (TPT) 三丙基錫化合物	Several 多個	DL 檢出極限: 0.5			
Tributyltin compounds (TBT) 三丁基錫化合物	Several 多個	DL 檢出極限: 0.5			
Bis(tributyltin) oxide (TBTO) 三丁基氧化錫	56-35-9	DL 檢出極限: 0.5			
Triphenyltin compounds (TPhT) 三苯基錫化合物	Several 多個	DL 檢出極限: 0.5			
Triocetyl tin compounds (TOT) 三辛基錫化合物	Several 多個	DL 檢出極限: 0.5			
Tetraethyltin compounds (TeET) 四乙基錫化合物	Several 多個	Traces 痕量: 1.0			
Tetrabutyltin compounds (TeBT) 四丁基錫化合物	Several 多個	DL 檢出極限: 0.5			
Tetraoctyltin compounds (TeOT) 四正辛基錫化合物	Several 多個	DL 檢出極限: 0.5			
Tricyclohexyltin compounds (TCyHT) 三環己基錫化合物	Several 多個	DL 檢出極限: 0.5			

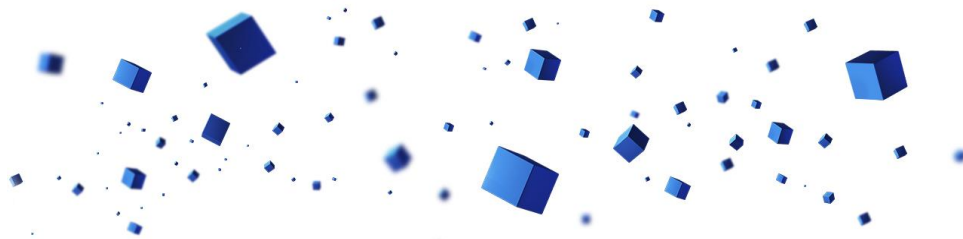
This document has been drafted in English and translated into Chinese for convenience only. In the event of discrepancy, the English version shall prevail.

本文為英文編寫，為便於理解翻譯為中文。如中英文不一致時，以英文文本為準。

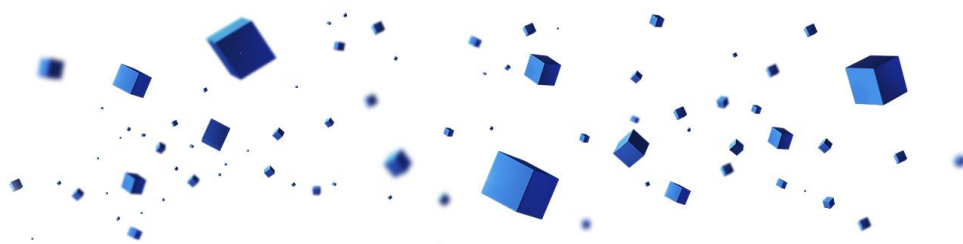
bluesign® system substances list 物質清單 (BSSL) | v10.0 | September 15, 2019

© bluesign technologies ag | www.bluesign.com





UV stabilizers 紫外線穩定劑						
Chemical Substances 化學物質	CAS Number 化學品文摘號	Limit Value 限值 [mg/kg] Usage range 使用類別			Recommended Sample Preparation // Test Method 推薦樣品製備//測試方法	
		A	B	C		
UV stabilizers 紫外線穩定劑	Several 多個	Usage ban 禁用				
UV-320 2-benzotriazol-2-yl-4,6-di-tert-butylphenol 紫外线吸收剂 UV-320 2-(2'-羟基-3',5'-二叔丁基苯基)-苯并三唑	3846-71-7	Traces 痕量: 1000			Extraction with Hexane/Dichloroethane // GC-MS 正己烷/二氯乙烷萃取//GC-MS	
UV-327 2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl) phenol 紫外线吸收剂 UV-327 2-(2'-羟基-3',5'-二叔丁基苯基)-5-氯苯并三唑	3864-99-1					
UV-328 2-(2H-benzotriazol-2-yl)-4,6-bis(1,1-dimethylpropyl)phenol 紫外线吸收剂 UV-328 2-(2'-羟基-3',5'-二叔戊基苯基)苯并三唑	25973-55-1					
UV-350 2-(2H-Benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol 紫外线吸收剂 UV-350 2-(2'-羟基-3'-仲丁基-5'-叔丁基苯基)苯并三唑	36437-37-3					



## 5.2 Substances with usage restrictions but no consumer safety limits 限用但沒有限值的化學物質

The following substances are not relevant concerning consumer safety aspects, or due to the fact, that they are used in very early manufacturing steps, normally are not to be found as residues in the article. Therefore, consumer safety limit values are not defined; however restrictions and bans are controlled by the bluesign® CHEMICAL ASSESSMENT (bluesign® TOOL limits) and the on-site inspection.

本節所述的化學物質和消費者安全無關，或其只在生產的最初工藝中使用，通常不會在製品中有殘留，因此沒有制定消費者安全限值；但相關限制和禁用規定將會透過 bluesign® CHEMICAL ASSESSMENT 化學品審查 (bluesign® TOOL 限值) 以及進行現場審核時進行控管。

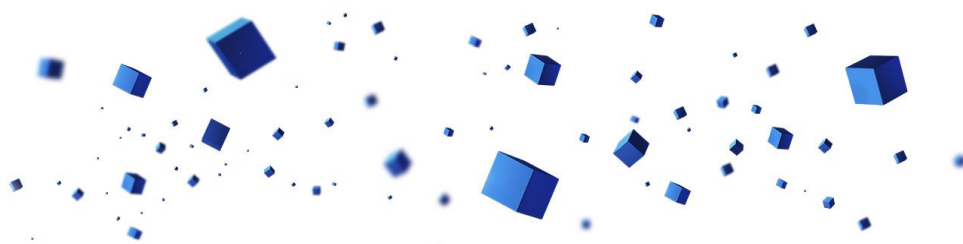
Substances with usage restrictions but no consumer safety limits 限用但沒有限值的化學物質		
Part 1 第一部分		Usage restrictions 用途限制
Chemical Substances 化學物質	CAS Number 化學品文摘號	
Bis(chloromethyl)ether 二氯甲基醚	542-88-1	Usage ban 禁用 Bis(chloromethyl)ether is a reaction product of formaldehyde and conc. hydrochloric acid. Formation shall be avoided in every case. 二氯甲基醚為甲醛和濃鹽酸的反應產物，在任何情況下不得產生此化學物質
1,3-Butadiene 1,3 丁二烯	106-99-0	Usage ban 禁用
Di(hydrogenated tallow alkyl)dimethylammonium chloride (DHTDMAC) 雙(氫化牛油烷基)二甲基氯化銨	61789-80-8	Usage ban 禁用
Distearyl dimethyl ammonium chloride (DSDMAC) 雙硬脂基二甲基氯化銨	107-64-2	Usage ban 禁用
Ditallow dimethyl ammonium chloride (DTDMAC) 雙牛油基二甲基氯化銨	68783-78-8	Usage ban 禁用
<b>EDTA/DTPA</b> 乙二胺四乙酸/二乙撐三胺五乙酸	<b>Several 多個</b>	Usage ban as water softener for freshwater preparation. Usage ban in textile auxiliaries. 禁止作為原水軟水劑用 禁止用於紡織品助劑
Ethylene diamine tetraacetic acid (EDTA), disodium salt dihydrate 乙二胺四乙酸及其二水二鈉鹽	139-33-3 / 6381-92-6	
Ethylene diamine tetraacetic acid (EDTA), tetrasodium salt 乙二胺四乙酸及其四鈉鹽	64-02-8	
Diethylene triamine pentaacetic acid (DTPA), sodium salt 二乙撐三胺五乙酸及其鈉鹽	140-01-2	

This document has been drafted in English and translated into Chinese for convenience only. In the event of discrepancy, the English version shall prevail.

本文為英文編寫，為便於理解翻譯為中文。如中英文不一致時，以英文文本為準。

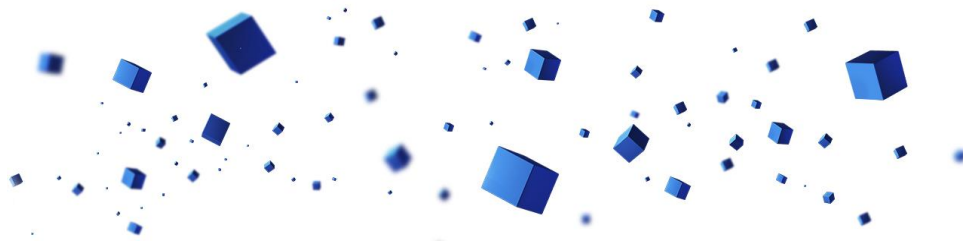
bluesign® system substances list 物質清單 (BSSL) | v10.0 | September 15, 2019

© bluesign technologies ag | www.bluesign.com



Ethylene oxide 環氧乙烷	75-21-8	Usage ban 禁用
Propylene oxide 環氧丙烷	75-56-9	Usage ban 禁用
<b>Hypochlorite/ Chlorine 次氯酸鹽/氯</b>		Several restrictions: compare with Guidance Sheet Hypochlorite 多重限制： 詳見次氯酸鹽的使用指南
Calcium hypochlorite 次氯酸鈣	7778-54-3	
Sodium hypochlorite 次氯酸鈉	7681-52-9	
Chlorine 氯	7782-50-5	
Sodium chlorite 亞氯酸鈉	7758-19-2	Usage ban with exception of extra white polyester for home textiles 除白色滌綸家用紡織品外禁用

Substances with usage restrictions but no consumer safety limits 限用但沒有限值的化學物質		
Part 2 第二部分		
Chemical Substances 化學物質	CAS Number 化學品文摘號	Usage restrictions 用途限制
<b>Phosphonates and salts 磷酸酯及其鹽</b>	<b>Several 多個</b>	Usage ban as water softener for freshwater preparation. Minimization requirement 禁止作為原水軟水劑用 最少使用原則
Amino, tris(methylene phosphonic acid) 氨基三甲叉膦酸	6419-19-8	
Diethylenetriaminepenta (methylenephosphonic acid) 二乙烯三胺五甲叉膦酸	15827-60-8	
Ethylenediaminetetra (methylenephosphonic acid) 乙二胺四甲叉膦酸鈉	1429-50-1	
1-Hydroxyethane-1,1-diphosphonic acid 羥基乙叉二膦酸	2809-21-4	
Potassium permanganate 高錳酸鉀	7722-64-7	Usage ban: compare with Guidance Sheet Potassium permanganate 禁用: 詳見高錳酸鉀的使用指南



## Annex I Compilation of single substances

### 附錄 I 各類別的限用物質匯總清單

In the following tables single substances belonging to groups:

本附錄按照如下分別列出各物質類別內的限用物質清單：

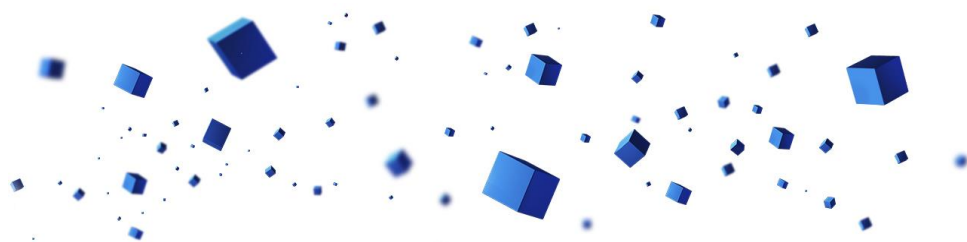
- Asbestos 石棉
- Chlorinated benzenes and toluenes 氯代苯和氯代甲苯類
- Colorants which can cleave in carcinogenic amines 可裂解致癌芳香胺的著色劑
- Dioxins and furans 戴奧辛和呋喃
- Greenhouse gases, fluorinated 含氟溫室氣體
- Ozone depleting substances 臭氧消耗物質
- Pesticides 殺蟲劑

are listed.

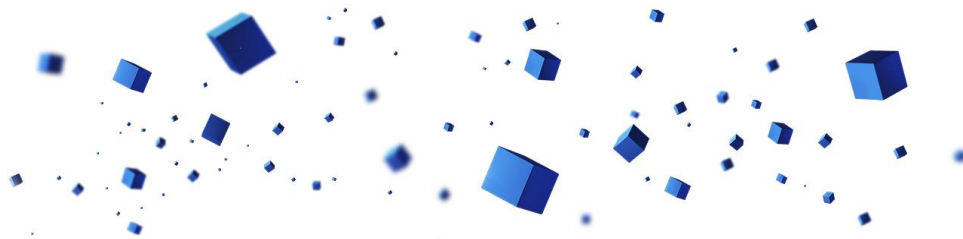
Limit values and test methods for the substance groups are provided in section 5.1.6.

限值及其檢測方法請見第 5.1.6 節。

Asbestos 石棉	
Chemical Substances 化學物質	CAS Number 化學品文摘號
Actinolite 陽起石	77536-66-4
Amosite 鐵石棉	12172-73-5
Anthophyllite 直閃石	77536-67-5
Chrysotile 溫石棉	12001-29-5
Crocidolite 青石棉	12001-28-4
Tremolite 透閃石	77536-68-6



Chlorinated Benzenes and Toluenes 氯代苯和氯代甲苯類			
Chemical Substances 化學物質	CAS Number 化學品文摘號	Chemical Substances 化學物質	CAS Number 化學品文摘號
<b>Chlorinated benzenes 氯代苯類</b>		Dichlorotoluenes, all isomers 二氯甲苯,及其異構體	Several 多個
Dichlorobenzenes, all isomers 二氯苯, 及其異構體	Several 多個	2,3-Dichlorotoluene 2,3-二氯甲苯	32768-54-0
1,2-Dichlorobenzene 1,2-二氯苯	95-50-1	2,4-Dichlorotoluene 2,4-二氯甲苯	95-73-8
1,3-Dichlorobenzene 1,3-二氯苯	541-73-1	2,5-Dichlorotoluene 2,5-二氯甲苯	19398-61-9
1,4-Dichlorobenzene 1,4-二氯苯	106-46-7	2,6-Dichlorotoluene 2,6-二氯甲苯	118-69-4
Trichlorobenzenes, all isomers 三氯苯, 及其異構體	Several 多個	3,4-Dichlorotoluene 3,4-二氯甲苯	95-75-0
1,2,3-Trichlorobenzene 1,2,3-三氯苯	87-61-6	3,5-Dichlorotoluene 3,5-二氯甲苯	25186-47-4
1,2,4-Trichlorobenzene 1,2,4-三氯苯	120-82-1	Trichlorotoluenes, all isomers 三氯甲苯,及其異構體	Several 多個
1,3,5-Trichlorobenzene 1,3,5-三氯苯	108-70-3	2,3,4-Trichlorotoluene 2,3,4-三氯甲苯	7359-72-0
Tetrachlorobenzenes, all isomers 四氯苯, 及其異構體	Several 多個	2,3,6-Trichlorotoluene 2,3,6-三氯甲苯	2077-46-5
1,2,3,4-Tetrachlorobenzene 1,2,3,4-四氯苯	634-66-2	2,4,5-Trichlorotoluene 2,4,5-三氯甲苯	6639-30-1
1,2,3,5-Tetrachlorobenzene 1,2,3,5-四氯苯	634-90-2	2,4,6-Trichlorotoluene 2,4,6-三氯甲苯	23749-65-7
1,2,4,5-Tetrachlorobenzene 1,2,4,5-四氯苯	95-94-3	3,4,5-Trichlorotoluene 3,4,5-三氯甲苯	21472-86-6
<b>Chlorinated toluenes 氯代甲苯類</b>		a,a,a-Trichlorotoluene a,a,a-三氯甲苯	98-07-7
Monochlorotoluenes, all isomers 一氯甲苯,及其異構體	Several 多個	Tetrachlorotoluenes, all isomers 四氯甲苯,及其異構體	Several 多個
2-Chlorotoluene 2-氯甲苯	95-49-8	2,3,4,5-Tetrachlorotoluene 2,3,4,5-四氯甲苯	76057-12-0
3-Chlorotoluene 3-氯甲苯	108-41-8	2,3,5,6-Tetrachlorotoluene 2,3,5,6-四氯甲苯	29733-70-8
4-Chlorotoluene 4-氯甲苯	106-43-4	2,3,4,6-Tetrachlorotoluene 2,3,4,6-四氯甲苯	875-40-1
		a,a,a,4-Tetrachlorotoluene a,a,a,4-四氯甲苯	5216-25-1



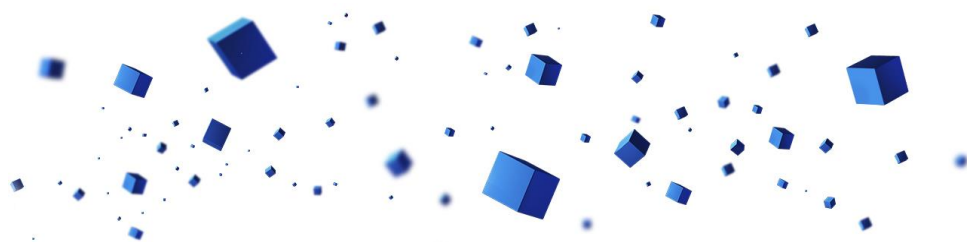
<b>Colorants which can cleave in carcinogenic amines (List is not exhaustive)</b> 可裂解致癌芳香胺的着色剂(不限於已列出的) <b>Part 1 第一部分</b>			
Chemical Substances 化學物質	CAS Number 化學品文摘號	Chemical Substances 化學物質	CAS Number 化學品文摘號
Acid Black 29 酸性黑 29	12217-14-0	Basic Red 76 鹼性紅 76	68391-30-0
Acid Black 94 酸性黑 94	6358-80-1	Basic Red 111 鹼性紅 111	113741-92-7
Acid Black 131 酸性黑 131	12219-01-1	Basic Red 114 鹼性紅 114	-
Acid Black 132 酸性黑 132	12219-02-2	Basic Yellow 82 鹼性黃 82	-
Acid Black 209 酸性黑 209	72827-68-0	Basic Yellow 103 鹼性黃 103	-
Acid Black 232 酸性黑 232	-	Developer 14 = Oxidation Base 20 2,4-二氨基甲苯	95-80-7
Acid Brown 415 酸性棕 415	97199-27-4	Direct Black 4 直接黑 4	25156-49-4
Acid Orange 45 酸性橙 45	2429-80-3	Direct Black 29 直接黑 29	25180-14-7
Acid Red 4 酸性紅 4	5858-39-9	Direct Black 154 直接黑 154	54804-85-2
Acid Red 5 酸性紅 5	5858-63-9	Direct Blue 1 直接藍 1	2610-05-1
Acid Red 24 酸性紅 24	5858-30-0	Direct Blue 2 直接藍 2	2429-73-4
Acid Red 35 酸性紅 35	6441-93-6	Direct Blue 3 直接藍 3	2429-72-3
Acid Red 73 酸性紅 73	5413-75-2	Direct Blue 8 直接藍 8	2429-71-2
Acid Red 85 酸性紅 85	3567-65-5	Direct Blue 9 直接藍 9	6428-98-4
Acid Red 104 酸性紅 104	8006-06-2	Direct Blue 10 直接藍 10	4198-19-0
Acid Red 114 酸性紅 114	6459-94-5	Direct Blue 14 直接藍 14	72-57-1
Acid Red 115 酸性紅 115	6226-80-8	Direct Blue 15 直接藍 15	2429-74-5
Acid Red 116 酸性紅 116	6245-62-1	Direct Blue 21 直接藍 21	6420-09-3
Acid Red 119:1 酸性紅 119:1	90880-75-4	Direct Blue 22 直接藍 22	2586-57-4
Acid Red 128 酸性紅 128	6548-30-7	Direct Blue 25 直接藍 25	25180-27-2
Acid Red 148 酸性紅 148	6300-53-4	Direct Blue 35 直接藍 35	6473-33-2
Acid Red 150 酸性紅 150	6226-78-4	Direct Blue 53 直接藍 53	314-13-6
Acid Red 158 酸性紅 158	8004-55-5	Direct Blue 151 直接藍 151	110735-25-6
Acid Red 167 酸性紅 167	61901-41-5	Direct Blue 160 直接藍 160	12222-02-5
Acid Red 264 酸性紅 264	6505-96-0	Direct Blue 173 直接藍 173	12235-72-2
Acid Red 265 酸性紅 265	6358-43-6	Direct Blue 192 直接藍 192	159202-76-3
Acid Red 420 酸性紅 420	-	Direct Blue 215 直接藍 215	6771-80-8
Acid Violet 12 酸性紫 12	6625-46-3	Direct Blue 295 直接藍 295	6420-22-0
Azoic Diazo Component 12 重氮組分 12	99-55-8	Direct Blue 306 直接藍 306	-
Azoic Diazo Component 48 重氮組分 48	119-90-4	Direct Brown 1 直接棕 1	3811-71-0
Azoic Diazo Component 112 重氮組分 112	92-87-5	Direct Brown 1:2 直接棕 1:2	2586-58-5
Azoic Diazo Component 113 重氮組分 113	119-93-7	Direct Brown 2 直接棕 2	25255-06-5
Basic Brown 4 鹼性棕 4	8005-78-5	Direct Brown 6 直接棕 6	25180-39-6
Basic Red 42 鹼性紅 42	12221-66-8	Direct Brown 25 直接棕 25	33363-87-0

This document has been drafted in English and translated into Chinese for convenience only. In the event of discrepancy, the English version shall prevail.

本文為英文編寫，為便於理解翻譯為中文。如中英文不一致時，以英文文本為準。

bluesign® system substances list 物質清單 (BSSL) | v10.0 | September 15, 2019

© bluesign technologies ag | www.bluesign.com



<b>Colorants which can cleave in carcinogenic amines (List is not exhaustive)</b> 可裂解出致癌芳香胺的着色剂(不限於已列出的) <b>Part 2 第二部分</b>			
Chemical Substances 化學物質	CAS Number 化學品文摘號	Chemical Substances 化學物質	CAS Number 化學品文摘號
Direct Brown 27 直接棕 27	6360-29-8	Direct Red 39 直接紅 39	6358-29-8
Direct Brown 31 直接棕 31	25180-41-0	Direct Red 44 直接紅 44	2302-97-8
Direct Brown 33 直接棕 33	1324-87-4	Direct Red 46 直接紅 46	6548-29-4
Direct Brown 51 直接棕 51	4623-91-0	Direct Red 62 直接紅 62	6420-43-5
Direct Brown 59 直接棕 59	6247-51-4	Direct Red 67 直接紅 67	6598-56-7
Direct Brown 74 直接棕 74	8014-91-3	Direct Red 72 直接紅 72	8005-64-9
Direct Brown 79 直接棕 79	6483-77-8	Direct Violet 1 直接紫 1	25188-44-7
Direct Brown 95 直接棕 95	16071-86-6	Direct Violet 4 直接紫 4	6472-95-3
Direct Brown 101 直接棕 101	3626-29-7	Direct Violet 12 直接紫 12	2429-75-6
Direct Brown 154 直接棕 154	6360-54-9	Direct Violet 13 直接紫 13	13478-92-7
Direct Brown 222 直接棕 222	64743-15-3	Direct Violet 21 直接紫 21	25188-48-1
Direct Brown 223 直接棕 223	76930-14-8	Direct Violet 22 直接紫 22	25329-82-2
Direct Green 1 直接綠 1	3626-28-6	Direct Yellow 24 直接黃 24	6486-29-9
Direct Green 6 直接綠 6	4335-09-5	Direct Yellow 48 直接黃 48	6459-97-8
Direct Green 8 直接綠 8	25180-47-6	Disperse Orange 60 分散橙 60	12270-44-9
Direct Green 8:1 直接綠 8:1	76012-70-9	Disperse Red 151 分散紅 151	61968-47-6
Direct Green 85 直接綠 85	72390-60-4	Disperse Red 221 分散紅 221	64426-35-3
Direct Orange 1 直接橙 1	54579-28-1	Disperse Yellow 7 分散黃 7	6300-37-4
Direct Orange 6 直接橙 6	6637-88-3	Disperse Yellow 56 分散黃 56	54077-16-6
Direct Orange 7 直接橙 7	2868-76-0	Disperse Yellow 218 分散黃 218	83929-90-2
Direct Orange 8 直接橙 8	64083-59-6	Solvent Orange 7 溶劑橙 7	3118-97-6
Direct Orange 10 直接橙 10	6405-94-3	Mordant Red 57 媒介紅 57	2429-84-7
Direct Orange 108 直接橙 108	6358-79-8	Mordant Yellow 16 媒介黃 16	8003-87-0
Direct Red 1 直接紅 1	25188-24-3	Solvent Red 1 溶劑紅 1	1229-55-6
Direct Red 2 直接紅 2	992-59-6	Solvent Red 19 溶劑紅 19	6368-72-5
Direct Red 7 直接紅 7	25188-28-7	Solvent Red 23 溶劑紅 23	85-86-9
Direct Red 10 直接紅 10	25188-29-8	Solvent Red 24 溶劑紅 24	85-83-6
Direct Red 13 直接紅 13	25188-30-1	Solvent Red 26 溶劑紅 26	4477-79-6
Direct Red 17 直接紅 17	25188-32-3	Solvent Red 68 溶劑紅 68	61813-90-9
Direct Red 21 直接紅 21	6406-01-5	Solvent Red 69 溶劑紅 69	5413-75-2
Direct Red 22 直接紅 22	6448-80-2	Solvent Red 164 溶劑紅 164	71819-51-7
Direct Red 24 直接紅 24	6420-44-6	Solvent Red 215 溶劑紅 215	-
Direct Red 26 直接紅 26	3687-80-7	Solvent Yellow 72 溶劑黃 72	61813-98-7
Direct Red 37 直接紅 37	3530-19-6		

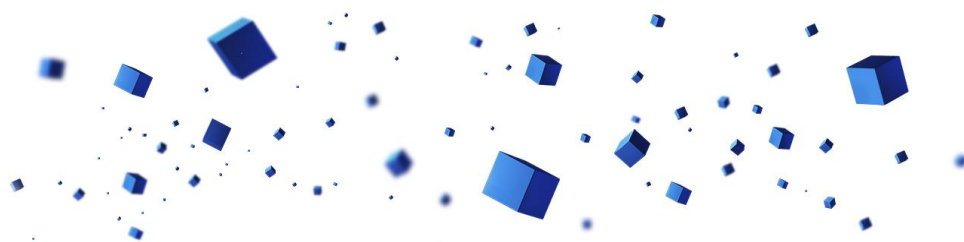
This document has been drafted in English and translated into Chinese for convenience only. In the event of discrepancy, the English version shall prevail.

本文為英文編寫，為便於理解翻譯為中文。如中英文不一致時，以英文文本為準。

bluesign® system substances list 物質清單 (BSSL) | v10.0 | September 15, 2019

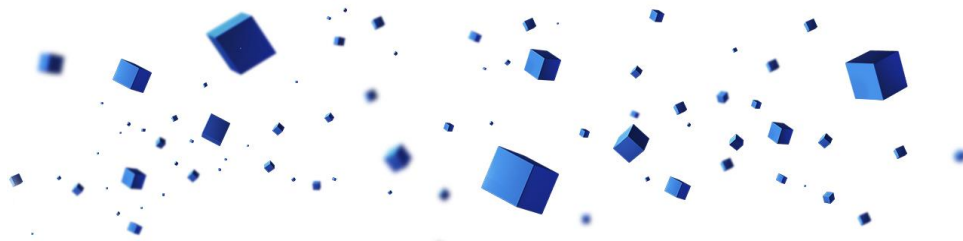
© bluesign technologies ag | www.bluesign.com



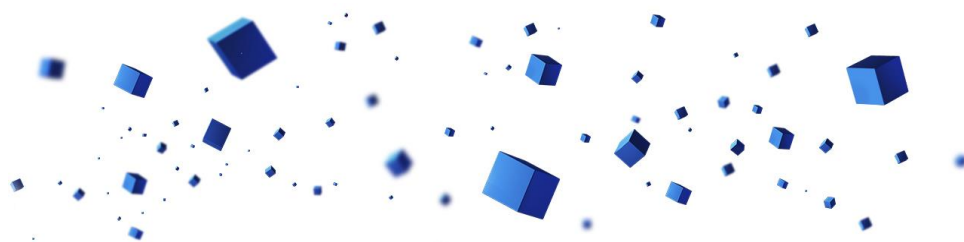


Dioxins and Furans 戴奧辛和呋喃			
Chemical Substances 化學物質	CAS Number 化學品文摘號	Chemical Substances 化學物質	CAS Number 化學品文摘號
<b>Group 組別 1:</b>	<b>Several 多個</b>	<b>Group 組別 3:</b>	<b>Several 多個</b>
2,3,7,8-Tetrachlorodibenzo-p-dioxin 2,3,7,8-四氯二苯並對戴奧辛	1746-01-6	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin 1,2,3,4,6,7,8-七氯代二苯並對戴奧辛	35822-46-9
1,2,3,7,8-Pentachlorodibenzo-p-dioxin 1,2,3,7,8-五氯二苯並對戴奧辛	40321-76-4	1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin 1,2,3,4,6,7,8,9-八氯代二苯並對戴奧辛	3268-87-9
2,3,7,8-Tetrachlorodibenzofuran 2,3,7,8-四氯二苯並呋喃	51207-31-9	1,2,3,4,6,7,8-Heptachlorodibenzofuran 1,2,3,4,6,7,8-七氯代二苯並呋喃	67562-39-4
2,3,4,7,8-Pentachlorodibenzofuran 2,3,4,7,8-五氯二苯並呋喃	57117-31-4	1,2,3,4,7,8,9-Heptachlorodibenzofuran 1,2,3,4,7,8,9-七氯代二苯並呋喃	55673-89-7
		1,2,3,4,6,7,8,9-Octachlorodibenzofuran 1,2,3,4,6,7,8,9-八氯代二苯並呋喃	39001-02-0
<b>Group 組別 2:</b>	<b>Several 多個</b>	<b>Group 組別 4:</b>	<b>Several 多個</b>
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin 1,2,3,4,7,8-六氯二苯並對戴奧辛	39227-28-6	2,3,7,8-Tetrabromodibenzo-p-dioxin 2,3,7,8-四溴二苯並對戴奧辛	50585-41-6
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin 1,2,3,6,7,8-六氯二苯並對戴奧辛	57653-85-7	1,2,3,7,8-Pentabromodibenzo-p-dioxin 1,2,3,7,8-五溴二苯並對戴奧辛	109333-34-8
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin 1,2,3,7,8,9-六氯二苯並對戴奧辛	19408-74-3	2,3,7,8-Tetrabromodibenzofuran 2,3,7,8-四溴二苯並呋喃	67733-57-7
1,2,3,7,8-Pentachlorodibenzofuran 1,2,3,7,8-五氯代二苯並呋喃	57117-41-6	2,3,4,7,8-Pentabromodibenzofuran 2,3,4,7,8-五溴二苯並呋喃	131166-92-2
1,2,3,4,7,8-Hexachlorodibenzofuran 1,2,3,4,7,8-六氯代二苯並呋喃	70648-26-9	<b>Group 5 組別 5:</b>	<b>Several 多個</b>
1,2,3,6,7,8-Hexachlorodibenzofuran 1,2,3,6,7,8-六氯代二苯並呋喃	57117-44-9	1,2,3,4,7,8-Hexabromodibenzo-p-dioxin 1,2,3,4,7,8-六溴二苯並對戴奧辛	110999-44-5
1,2,3,7,8,9-Hexachlorodibenzofuran 1,2,3,7,8,9-六氯代二苯並呋喃	72918-21-9	1,2,3,6,7,8-Hexabromodibenzo-p-dioxin 1,2,3,6,7,8-六溴二苯並對戴奧辛	110999-45-6
2,3,4,6,7,8-Hexachlorodibenzofuran 2,3,4,6,7,8-六氯代二苯並呋喃	60851-34-5	1,2,3,7,8,9-Hexabromodibenzo-p-dioxin 1,2,3,7,8,9-六溴二苯並對戴奧辛	110999-46-7
		1,2,3,7,8-Pentabromodibenzofuran 1,2,3,7,8-五溴二苯並呋喃	107555-93-1





Greenhouse Gases, fluorinated 含氟溫室氣體			
Chemical Substances 化學物質	CAS Number 化學品文摘號	Chemical Substances 化學物質	CAS Number 化學品文摘號
Sulphur hexafluoride - SF6 六氟化硫 - SF6	2551-62-4	<b>Hydrofluorocarbons (HFCs) cont. 氟代烷烴(續)</b>	
<b>Perfluorocarbons (PFCs) 全氟化碳</b>	<b>Several 多個</b>	HFC-125 - C2HF5 五氟乙烷	354-33-6
Perfluoromethane (CF4) 四氟甲烷	75-73-0	HFC-134 - C2H2F4 1,1,2,2-四氟乙烷	359-35-3
Perfluoroethane (C2F6) 六氟乙烷	76-16-4	HFC-134a - CH2FCF3 1,1,1,2-四氟乙烷	811-97-2
Perfluoropropane (C3F8) 全氟丙烷	76-19-7	HFC-152a - C2H4F2 1,1-二氟乙烷	75-37-6
Perfluorobutane (C4F10) 全氟丁烷	355-25-9	HFC-143 - C2H3F3 1,1,2-三氟乙烷	430-66-0
Perfluoropentane (C5F12) 全氟戊烷	678-26-2	HFC-143a - C2H3F3 1,1,1-三氟乙烷	420-46-2
Perfluorohexane (C6F14) 全氟己烷	355-42-0	HFC-227ea - C3HF7 1,1,1,2,3,3,3-七氟丙烷	431-89-0
Perfluorocyclobutane (c-C4F8) 全氟環己烷	115-25-3	HFC-236cb - CH2FCF2CF3 1,1,1,2,2,3-六氟丙烷	677-56-5
<b>Hydrofluorocarbons (HFCs) 氟代烷烴</b>	<b>Several 多個</b>	HFC-236ea - CHF2CHF2CF3 1,1,1,2,3,3-六氟丙烷	431-63-0
HFC-23 - CHF3 三氟甲烷	75-46-7	HFC-236fa - C3H2F6 1,1,1,3,3,3-六氟丙烷	690-39-1
HFC-32 - CH2F2 二氟甲烷	75-10-5	HFC-245ca - C3H3F5 1,1,2,2,3-五氟丙烷	679-86-7
HFC-41 - CH3F 氟甲烷	593-53-3	HFC-245fa - CHF2CH2CF3 1,1,1,3,3-五氟丙烷	460-73-1
HFC-43-10mee - C5H2F10 十氟戊烷	138495-42-8	HFC-365mfc - CF3CH2CF2CH3 1,1,1,3,3-五氟丁烷	406-58-6



Ozone Depleting Substances (CFCs) 臭氧消耗物質			
Part 1 第一部分			
Chemical Substances 化學物質	CAS Number 化學品文摘號	Chemical Substances 化學物質	CAS Number 化學品文摘號
<b>Ozone-depleting substances class I</b> 臭氧消耗物質第 I 類	<b>Several 多個</b>	Dichlorohexafluoropropane CFC-216 二氯六氟丙烷 CFC-216	661-97-2
Trichlorofluoromethane CFC-11 一氟 三氯甲烷 CFC-11	75-69-4	Monochloroheptafluoropropane CFC-217 一氯七氟丙烷 CFC-217	422-86-6
Dichlorofluoromethane CFC-12 二氟二氯甲烷 CFC-12	75-71-8	Carbon tetrachloride CCl4 四氯化碳 CCl4	56-23-5
1,1,2-Trichloro-1,2,2-trifluoroethane CFC-113 1,1,2-三氯-1,2,2-三氟乙烷 CFC-113	76-13-1	CHFBr2 – HBFC-21 B2 二溴氟甲烷– HBFC-21 B2	1868-53-7
1,1,1-Trichloro-2,2,2-trifluoroethane CFC-113a 1,1,1-三氯-2,2,2-三氟乙烷 CFC-113a	354-58-5	CHF2Br – HBFC-22 B1 溴二氟甲烷– HBFC-22 B1	1511-62-2
1,2-Dichloro-1,1,2,2-tetrafluoroethane CFC-114 二氯-1,1,2,2-四氟乙烷 CFC-114	76-14-2	CH2FBr – HBFC-31 B1 溴氟甲烷– HBFC-31 B1	373-52-4
1,1-Dichloro-1,2,2,2-tetrafluoroethane CFC-114a 1,1-二氯-1,2,2,2-四氟乙烷 CFC-114a	374-07-2	C2HFBr4 – HBFC-121 B4 四溴一氟乙烷– HBFC-121 B4	353-93-5
Monochloropentafluoroethane CFC-115 一氯五氟乙烷 CFC-115	76-15-3	C2HF2Br3 – HBFC-122 B3 三溴二氟乙烷– HBFC-122 B3	353-97-9
Bromochlorodifluoromethane Halon-1211 二氟一氯一溴甲烷 哈龍-1211	353-59-3	C2HF3Br2 – HBFC-123 B2 (Halon 2302) 二溴三氟乙烷– HBFC-123 B2 哈龍 2302	354-04-1
Bromotrifluoromethane Halon-1301 三氟一溴甲烷 哈龍-1301	75-63-8	C2HF4Br – HBFC-124 B1 一溴四氟乙烷– HBFC-124 B1	354-07-4
Dibromotetrafluoroethane Halon-2402 二溴四氟乙烷 哈龍-2402	124-73-2	C2H2FBr3 – HBFC-131 B3 三溴氟乙烷– HBFC-131 B3	172912-75-3
Chlorotrifluoromethane CFC-13 三氟一氯甲烷 CFC-13	75-72-9	C2H2F2Br2 – HBFC-132 B2 二溴二氟乙烷– HBFC-132 B2	75-82-1
Pentachlorofluoroethane CFC-111 氟五氯乙烷 CFC-111	354-56-3	C2H2F3Br – HBFC-133a B1 溴三氟乙烷– HBFC-133a B1	421-06-7
1,1,2,2-Tetrachloro-1,2-difluoroethane CFC-112 1,1,2,2-四氯-1,2-二氟乙烷 CFC-112	76-12-0	C2H3FBr2 – HBFC-141 B2 二溴氟乙烷– HBFC-141 B2	358-97-4
1,1,1,2-Tetrachlorodifluoroethane CFC-112a 1,1,1,2-四氯二氟乙烷 CFC-112a	76-11-9	C2H3F2Br – HBFC-142 B1 一溴二氟乙烷– HBFC-142 B1	359-07-9
Heptachlorofluoropropane CFC-211 氟七氯丙烷 CFC-211	422-78-6	C2H4FBr – HBFC-151 B1 一溴一氟乙烷– HBFC-151 B1	762-49-2

This document has been drafted in English and translated into Chinese for convenience only. In the event of discrepancy, the English version shall prevail.

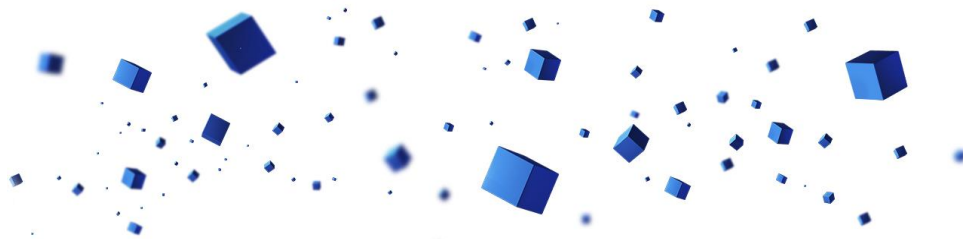
本文為英文編寫，為便於理解翻譯為中文。如中英文不一致時，以英文文本為準。

bluesign® system substances list 物質清單 (BSSL) | v10.0 | September 15, 2019

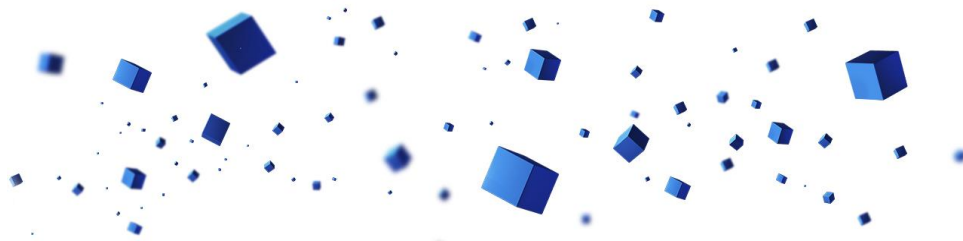
© bluesign technologies ag | www.bluesign.com



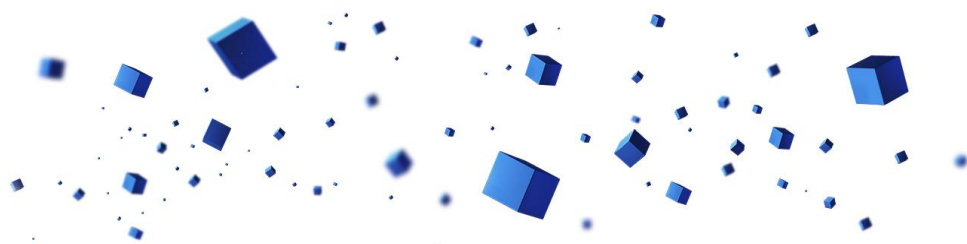
Hexachlorodifluoropropane CFC-212 二氟六氯丙烷 CFC-212	3182-26-1	C3HFBr6 - HBFC-221 B6 六溴一氟丙烷- HBFC-221 B6	-
Pentachlorotrifluoropropane CFC-213 三氟五氯丙烷 CFC-213	2354-06-5	C3HF2Br5 - HBFC-222 B5 五溴二氟丙烷- HBFC-222 B5	-
Tetrachlorotetrafluoropropane CFC-214 四氟四氯丙烷 CFC-214	29255-31-0	C3HF3Br4 - HBFC-223 B4 四溴三氟丙烷- HBFC-223 B4	-
1,1,3-Trichloropentafluoropropane CFC-215 1,1,3-三氯五氟丙烷 CFC-215	76-17-5	C3HF4Br3 - HBFC-224 B3 三溴四氟丙烷- HBFC-224 B3	666-48-8
1,2,3-Trichloropentafluoropropane CFC-215 1,2,3-三氯五氟丙烷 CFC-215	1652-81-9	C3HF5Br2 - HBFC-225 B2 二溴五氟丙烷- HBFC-225 B2	431-78-7
1,1,1-Trichloropentafluoropropane CFC-215 1,1,1-三氯五氟丙烷 CFC-215	4259-43-2	C3HF6Br - HBFC-226 B1 一溴六氟丙烷- HBFC-226 B1	2252-79-1
1,2,2-Trichloropentafluoropropane CFC-215 1,2,2-三氯五氟丙烷 CFC-215	1599-41-3	C3H2FBr5 - HBFC-231 B5 五溴一氟丙烷- HBFC-231 B5	-



Ozone Depleting Substances (CFCs) 臭氧消耗物質			
Part 2 第二部分			
Chemical Substances 化學物質	CAS Number 化學品文摘號	Chemical Substances 化學物質	CAS Number 化學品文摘號
C3H2F2Br4 - HBFC-232 B4 四溴二氟丙烷- HBFC-232 B4	148875-98-3	<b>Ozone-depleting substances class II</b> <b>臭氧消耗物質第 II 類</b>	<b>Several 多個</b>
C3H2F3Br3 - HBFC-233 B3 三溴三氟丙烷- HBFC-233 B3	431-48-1	Dichlorofluoromethane HCFC-21 一氟二氯甲烷 HCFC-21	75-43-4
C3H2F4Br2 - HBFC-234 B2 二溴四氟丙烷- HBFC-234 B2	460-86-6	Monochlorodifluoromethane HCFC-22 二氟一氯甲烷 HCFC-22	75-45-6
C3H2F5Br - HBFC-235 B1 一溴五氟丙烷- HBFC-235 B1	460-88-8	Monochlorofluoromethane HCFC-31 一氟一氯甲烷 HCFC-31	593-70-4
C3H3FBr4 - HBFC-241 B4 四溴一氟丙烷- HBFC-241 B4	-	Tetrachlorofluoroethane HCFC-121 一氟四氯乙烷 HCFC-121	354-14-3
C3H3F2Br3 - HBFC-242 B3 三溴二氟丙烷- HBFC-242 B3	666-25-1	Trichlorodifluoroethane HCFC-122 二氟三氯乙烷 HCFC-122	354-21-2
C3H3F3Br2 - HBFC-243 B2 二溴三氟丙烷- HBFC-243 B2	460-60-6	Dichlorotrifluoroethane HCFC-123 三氟二氯乙烷 HCFC-123	306-83-2
C3H3F4Br - HBFC-244 B1 一溴四氟丙烷- HBFC-244 B1	460-67-3	Monochlorotetrafluoroethane HCFC-124 四氟一氯乙烷 HCFC-124	2837-89-0
C3H4FBr3 - HBFC-251 B1 三溴一氟丙烷- HBFC-251 B1	75372-14-4	Trichlorofluoroethane HCFC-131 一氟三氯乙烷 HCFC-131	359-28-4
C3H4F2Br2 - HBFC-252 B2 二溴二氟丙烷- HBFC-252 B2	51584-25-9	Dichlorodifluoroethane HCFC-132 二氟二氯乙烷 HCFC-132	1649-08-7
C3H4F3Br - HBFC-253 B1 一溴三氟丙烷- HBFC-253 B1	460-32-2	Monochlorotrifluoroethane HCFC-133a 三氟一氯乙烷 HCFC-133a	75-88-7
C3H5FBr2 - HBFC-261 B2 二溴一氟丙烷- HBFC-261 B2	453-00-9	HCFC-141 一氟二氯乙烷 HCFC-141	-
C3H5F2Br - HBFC-262 B1 一溴二氟丙烷- HBFC-262 B1	461-49-4	Dichlorofluoroethane HCFC-141b 一氟二氯乙烷 HCFC-141b	1717-00-6
C3H6FBr - HBFC-271 B1 一溴一氟丙烷- HBFC-271 B1	1871-72-3	HCFC-142 二氟一氯乙烷 HCFC-142	-
Chlorobromomethane CH2BrCl 溴氯甲烷 CH2BrCl	-	Monochlorodifluoroethane HCFC-142b 二氟一氯乙烷 HCFC-142b	75-68-3
		HCFC-151 一氟一氯乙烷 HCFC-151	-
		Hexachlorofluoropropane HCFC-221 一氟六氯丙烷 HCFC-221	422-26-4



Ozone Depleting Substances (CFCs) 臭氧消耗物質			
Part 3 第三部分			
Chemical Substances 化學物質	CAS Number 化學品文摘號	Chemical Substances 化學物質	CAS Number 化學品文摘號
Pentachlorodifluoropropane HCFC-222 二氟五氯丙烷 HCFC-222	422-49-1	Monochloropentafluoropropane HCFC-235 五氟一氯丙烷 HCFC-235	460-92-4
Tetrachlorotrifluoropropane HCFC-223 三氟四氯丙烷 HCFC-223	422-52-6	Tetrachlorofluoropropane HCFC-241 一氟四氯丙烷 HCFC-241	666-27-3
Trichlorotetrafluoropropane HCFC-224 四氟三氯丙烷 HCFC-224	422-54-8	Trichlorodifluoropropane HCFC-242 二氟三氯丙烷 HCFC-242	460-63-9
HCFC-225 五氟二氯丙烷	-	Dichlorotrifluoropropane HCFC-243 三氟二氯丙烷 HCFC-243	460-69-5
Dichloropentafluoropropane HCFC-225ca 3,3-二氯-1,1,1,2,2-五氟丙烷 HCFC-225ca	422-56-0	Monochlorotetrafluoropropane HCFC-244 四氟一氯丙烷 HCFC-244	134190-50-4
Dichloropentafluoropropane HCFC-225cb 1,3-二氯-1,1,1,2,3-五氟丙烷 HCFC-225cb	507-55-1	Monochlorotetrafluoropropane HCFC-251 四氟一氯丙烷 HCFC-251	421-41-0
Monochlorohexafluoropropane HCFC-226 六氟一氯丙烷 HCFC-226	431-87-8	Dichlorodifluoropropane HCFC-252 二氟二氯丙烷 HCFC-252	819-00-1
Pentachlorofluoropropane HCFC-231 一氟五氯丙烷 HCFC-231	421-94-3	Monochlorotrifluoropropane HCFC-253 三氟一氯丙烷 HCFC-253	460-35-5
Tetrachlorodifluoropropane HCFC-232 二氟四氯丙烷 HCFC-232	460-89-9	Dichlorofluoropropane HCFC-261 一氟二氯丙烷 HCFC-261	420-97-3
Trichlorotrifluoropropane HCFC-233 三氟三氯丙烷 HCFC-233	7125-84-0	Monochlorodifluoropropane HCFC-262 二氟一氯丙烷 HCFC-262	421-02-3
Dichlorotetrafluoropropane HCFC-234 四氟二氯丙烷 HCFC-234	425-94-5	Monochlorofluoropropane HCFC-271 一氟一氯丙烷 HCFC-271	430-55-7



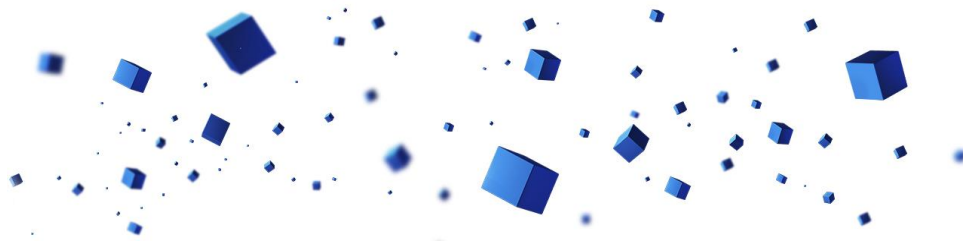
Pesticides 殺蟲劑			
Part 1 第一部分			
Chemical Substances 化學物質	CAS Number 化學品文摘號	Chemical Substances 化學物質	CAS Number 化學品文摘號
Acetamiprid 亞滅培	135410-20-7 160430-64-8	Cypermethrin 賽滅寧	52315-07-8
Alachlor 拉草	15972-60-8	Deltamethrin 第滅寧	52918-63-5
Aldicarb 得滅克	116-06-3	Demeton 滅賜松	919-86-8
Aldrine 阿特靈	309-00-2	Diazinon 大利松	333-41-5
Atrazine 草脫淨	1912-24-9	1,2-Dibromo-3-chloropropane (DBCP) 1,2-二溴-3-氯丙烷	96-12-8
Azinphos methyl 谷速松	86-50-0	Dichlofenthion 除線磷	97-17-6
Azinphos ethyl 乙基穀硫磷(益棉磷)	2642-71-9	Dichlofluanide 益發靈	1085-98-9
Binapacryl 百蟎克	485-31-4	o,p'-Dichlorodiphenyldichloroethane (o,p'-DDD) 米托坦;1-(2-氯苯基)-1-(4-氯苯基)-2,2-二氯 乙烷	53-19-0
Bromophos-ethyl 乙基溴磷松	4824-78-6	p,p'-Dichlorodiphenyldichloroethane (p,p'-DDD) 2,2-雙(對氯苯基)-1,1-二氯乙烷	72-54-8
Captafol 四氯丹	2425-06-1	o,p'-Dichlorodiphenyldichloroethylene (o,p'-DDE) 3-鄰氯苯基-2-對氯苯基-1,1-二氯乙烯	3424-82-6
Carbaryl 加保利	63-25-2	p,p'-Dichlorodiphenyldichloroethylene (p,p'-DDE) 2,2-雙(4-氯苯基)-1,1-二氯乙烯	72-55-9
Carbendazim 貝芬替	10605-21-7	o,p'-Dichlorodiphenyltrichloroethane (o,p'- DDT) and its isomers; preparations containing DDT and its isomers 2-鄰氯苯基-2-對氯苯基-1,1,1-三氯乙烷及其 異構體;製備時含有 DDT 及其異構體	789-02-6
Chlordane 可氯丹	57-74-9	p,p'-Dichlorodiphenyltrichloroethane (p,p'- DDT) and its isomers; preparations containing DDT and its isomers 1,1-雙(4-氯苯基)2,2,2-三氯乙烷及其異構體; 製備時含 DDT 及其異構體	50-29-3
Chlordecone 十氯酮	143-50-0	2,4-Dichlorophenoxyacetic acid, its salts and compounds 2,4-二氯苯氧基乙酸及其鹽和化合物	94-75-7

This document has been drafted in English and translated into Chinese for convenience only. In the event of discrepancy, the English version shall prevail.

本文為英文編寫，為便於理解翻譯為中文。如中英文不一致時，以英文文本為準。

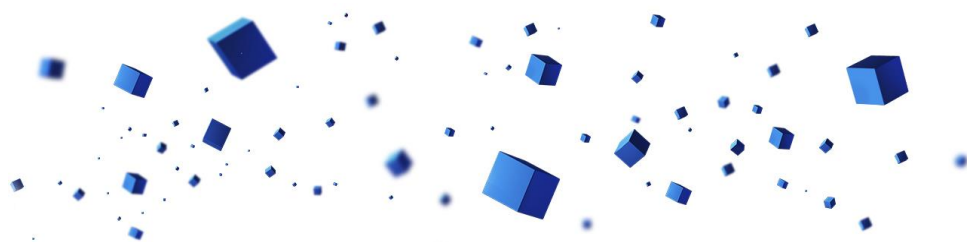
bluesign® system substances list 物質清單 (BSSL) | v10.0 | September 15, 2019

© bluesign technologies ag | www.bluesign.com



Chlordimeform 克死蟎	6164-98-3	4,6-Dichloro-7-(2,4,5-trichlorophenoxy)-2-trifluoromethylbenzimidazole (DTTB) 4,6-二氯-7-(2,4,5-三氯苯氧基)-2-三氟甲基 苯並咪唑	63405-99-2
Chlorfenvinphos 氯芬松	470-90-6	Dichlorprop 2,4-滴丙酸	120-36-5
Chlorobenzilate 克氯苯	510-15-6	Dichlorvos 二氯松	62-73-7
Chlorpyrifos 陶斯松	2921-88-2	Dicofol 大克蟎	115-32-2
Chlorthalonil 四氯異苯腈	1897-45-6	Dicrotophos 雙特松	141-66-2
Clothianidin 可尼丁	210880-92-5	Dicyclanil 地昔尼爾	112636-83-6
Coumaphos 香豆磷	56-72-4	Dieldrine 地特靈	60-57-1
Cyfluthrin 賽扶寧	68359-37-5	Diflubenzuron 二福隆	35367-38-5
Cyhalothrin, lambda 賽洛寧	91465-08-6	Dimethoate 大滅松	60-51-5





Pesticides 殺蟲劑			
Part 2 第二部分			
Chemical Substances 化學物質	CAS Number 化學品文摘號	Chemical Substances 化學物質	CAS Number 化學品文摘號
Dinotefuran 達特南	165252-70-0	Linuron 理有龍	330-55-2
Dinoseb, its salts and acetate 地樂酚及其鹽和醋酸酯	88-85-7 and others	Malathion 馬拉松(有機磷殺蟲劑)	121-75-5
Dinoterb 達諾殺	1420-07-1	MCPA 2-甲-4-苯氧基乙酸	94-74-6
Disulfoton 二硫松	298-04-4	MCPB 氯丁酸	94-81-5
Diuron 達有龍	330-54-1	Mecoprop 丙酸	93-65-2
DNOC 二硝甲酚	534-52-1	Methamidophos 達馬松	10265-92-6
Endosulfan 安殺番	115-29-7	Methoxychlor 甲氧氯	72-43-5
Endosulfan, alpha α-硫丹	959-98-8	Methyl bromide 甲基溴	74-83-9
Endosulfan, beta β-硫丹	33213-65-9	Methyl parathion 甲基巴拉松	298-00-0
Endrine 安特靈	72-20-8	Mevinphos 美文松	7786-34-7
Esfenvalerate 益化利	66230-04-4	Mirex 滅蟻樂	2385-85-5
Ethion 愛殺松	563-12-2	Monocrotophos 亞素靈	6923-22-4
Ethyl parathion 巴拉松	56-38-2	Monolinuron 綠谷隆	1746-81-2
Ethylene dibromide (EDB) 二溴化乙烯	106-93-4	(e)-Nitenpyram 烯啶虫胺	150824-47-8 120738-89-8
Fenchlorphos 樂乃松	299-84-3	Omethoate 歐滅松	1113-02-6
Fenitrothion 撲滅松	122-14-5	Oxydemeton-methyl 滅多松	301-12-2
Fenvalerate 芬化利	51630-58-1	Paraquat dication 雙陽離子巴拉刈	4685-14-7
Flumethrin 氟氯苯菊酯	69770-45-2	Paraquat dichloride 二氯化巴拉刈	1910-42-5
Heptachlor 飛佈達	76-44-8	Pentachloroanisole 五氯甲氧基苯	1825-21-4
Heptachlor epoxide 環氧飛佈達	1024-57-3	Perthane 乙滴涕	72-56-0
Hexachlorocyclohexane (HCH), all isomers 六氯環己烷及其同分異構體	608-73-1	Phosphamidon 福賜米松	13171-21-6
Imidacloprid 益達胺	105827-78-9 138261-41-3	Phoxim 巴賽松	14816-18-3
Isodrin 異艾氏劑	465-73-6	Pirimiphos-methyl 亞特松	29232-93-7
Isoproturon 異丙隆	34123-59-6	Profenophos 佈飛松	41198-08-7
Kelevane 克來範	4234-79-1	Propanil 除草靈	709-98-8
Lindane (gamma-HCH) 靈丹	58-89-9	Propetamphos 胺丙畏	31218-83-4

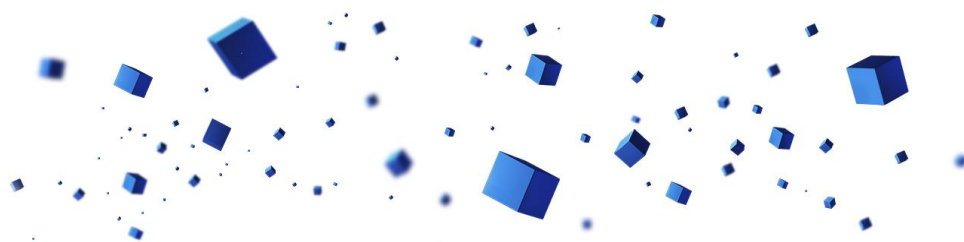
This document has been drafted in English and translated into Chinese for convenience only. In the event of discrepancy, the English version shall prevail.

本文為英文編寫，為便於理解翻譯為中文。如中英文不一致時，以英文文本為準。

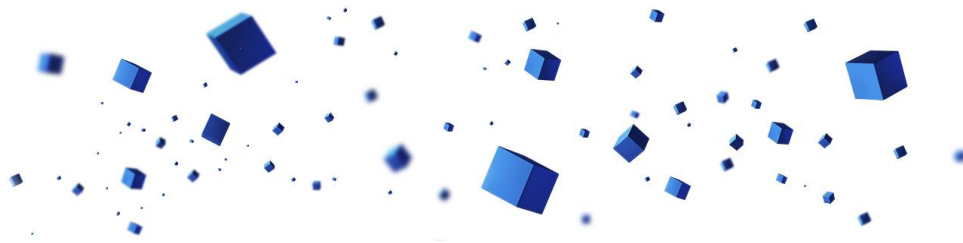
bluesign® system substances list 物質清單 (BSSL) | v10.0 | September 15, 2019

© bluesign technologies ag | www.bluesign.com





Pesticides 殺蟲劑			
Part 3 第三部分			
Chemical Substances 化學物質	CAS Number 化學品文摘號	Chemical Substances 化學物質	CAS Number 化學品文摘號
Pyrazon 吡唑啉	1698-60-8	Tolyfluamide 甲基益發靈	731-27-1
Quinalphos 拜裕松	13593-03-8	Toxaphene 毒殺芬	8001-35-2
Quintozene 五氯硝基苯	82-68-8	Tribufos (DEF) 脫葉磷	78-48-8
Simazine 草滅淨	122-34-9	Trichlorfon 三氯松	52-68-6
Strobane 毒殺芬	8001-50-1	2,4,5-Trichlorophenoxyacetic acid, salts and compounds 2,4,5-三氯苯氧基乙酸,及其鹽和化合物	93-76-5
Telodrin 碳氯靈	297-78-9	2-(2,4,5-Trichlorophenoxy)propionic acid, salts and compounds 2-(2,4,5-三氯苯氧基)丙酸,及其鹽和化合物	93-72-1
Tiacloprid 賽果培	111988-49-9	Triflumuron 三福隆	64628-44-0
Timiperone (DTTB) 替米呱隆	57648-21-2	Trifluralin 三福林	1582-09-8
Thiamethoxam 賽速安	153719-23-4	Vinclozolin 免克寧	50471-44-8



## Annex II Usage Ranges

### 附錄 II 使用類別

Usage ranges classify consumer goods according to their consumer safety relevance.

使用類別是根據對消費者安全的相關要求對消費品進行分類。

Exposure scenarios concerning oral, dermal and inhalative exposure are the guiding principles for the definition of limit values to ensure consumer safety and the basis for setting usage ranges. Dermal exposure (exposure to human skin) is the main criteria used to allocate usage range. Other exposure routes may override this allocation if a more stringent usage range would result.

消費者安全和使用類別的建立以口腔接觸，皮膚接觸和呼吸接觸為導向原則，其中與人類皮膚的接觸為主要歸類原則。如因特定使用情形產生更為嚴格的要求，應以相應的接觸方式為準作出制定。

Three usage ranges (A, B, C) are defined with A being the most stringent category concerning limit values/bans:

使用類別分三類(A, B, C)，其中 A 類有最為嚴格的限值及禁用要求：

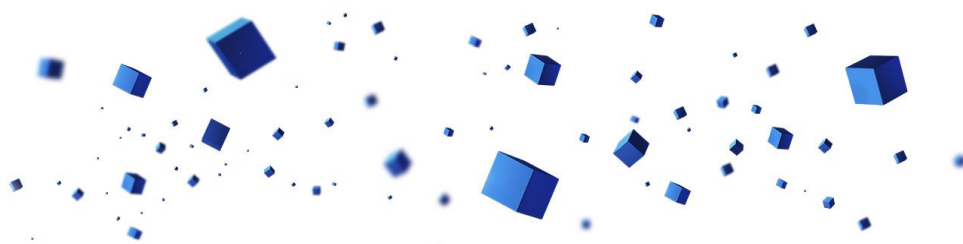
- Usage Range A: Next to skin use and baby articles (0 to 3 years)  
使用類別 A：緊貼皮膚類和嬰兒類(零至三歲)
- Usage Range B: Occasional skin contact  
使用類別 B：偶爾接觸皮膚類
- Usage Range C: No skin contact  
使用類別 C：不接觸皮膚類

This means a garment is at least usage range B unless the wearing properties and expected consumer behavior require a classification in usage range A.

這意味著一套服裝，如沒有特定穿著用途無需達到 A 類要求，至少需要滿足 B 類要求。

The following table lists common consumer goods and allocates usage ranges. This classification is typically valid for the complete product. Exceptions are defined in the list.

下表列出日常消費用品的使用類別。除作出說明的例外部分，一個使用類別適用於一個消費用品的所有部分。



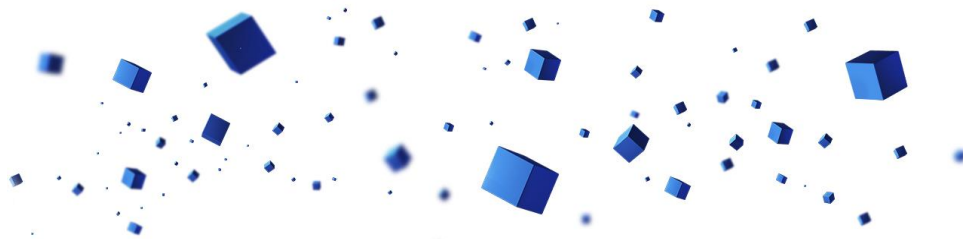
Consumer goods 消費用品	Usage range 使用類別 A 類	Usage range 使用類別 B 類	Usage range 使用類別 C 類	
Automotive 車用面料			x	Seat fabric - usage range B 座椅面料 – B 類
Baby wear and textile articles (0 – 3 years) 嬰兒用紡織品(0-3 歲)	x			
Backpack 背包			x	Shoulder straps, harness and backrest that have contact with the skin must be usage range A 與皮膚接觸的吊帶、背帶和護墊必須是 A 類
Bed linen 床單	x			
Bike shorts 運動短褲	x			
Blouse 上衣		x		
Bra 文胸	x			
Carpet 地毯		x		
Cleaning cloth 清潔布		x		
Curtain 窗簾			x	
Dress 洋裝		x		
Furnishing fabric 裝飾面料		x		e.g. seat cover 如: 椅套
Geo textiles 土工布			x	e.g. building-/construction textiles, erosion protective textiles 如: 建築用布、防腐保護用布
Gloves/Mittens 手套	x			
Harness 護具保護帶		x		
Headress 頭飾	x			
Hammock 吊床		x		
Jacket 夾克		x		
Leggings 打底褲	x			
Long sleeve t-shirt 長袖 T 恤	x			
Mosquito net 蚊帳			x	
Pants 長褲		x		
Pullover 套頭衫		x		
Ropes & slings 繩索		x	x	Depends on use 視用途而定
Scarf 圍巾	x			
Shirt 襯衫		x		

This document has been drafted in English and translated into Chinese for convenience only. In the event of discrepancy, the English version shall prevail.

本文為英文編寫，為便於理解翻譯為中文。如中英文不一致時，以英文文本為準。

bluesign® system substances list 物質清單 (BSSL) | v10.0 | September 15, 2019

© bluesign technologies ag | www.bluesign.com



Consumer goods 消費用品	Usage range 使用類別 A 類	Usage range 使用類別 B 類	Usage range 使用類別 C 類
Skirt 裙		x	
Sleeping bag 睡袋		x	Lining must be usage range A 襯裡必須是 A 類
Sleeping mattress 床墊	x		
Socks 襪子	x		
Sport shirt 運動上衣	x		
Sweatshirt 運動衫		x	
Swim wear 游泳衣	x		
Tent 帳篷			x Tent floor must be usage range B 地帳必須是 B 類
Tie 領帶		x	
Tights 緊身衣	x		
Towel 毛巾		x	
T-Shirt T-恤	x		
Underpants (long/short) 內褲 (長/短)	x		
Undershirt 貼身內衣	x		