

bluesign® system substances list 物质清单 (BSSL) Consumer safety limits 消费者安全限值

Version 10.0 | September 15, 2019





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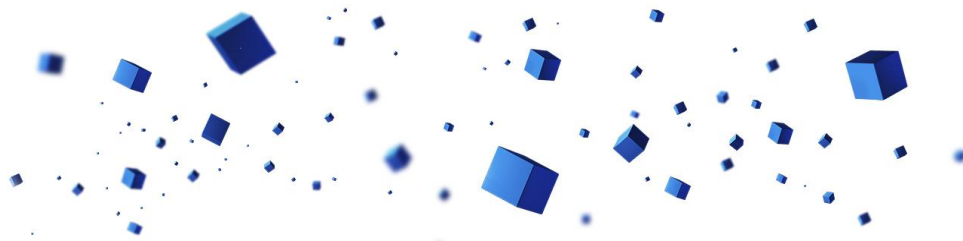
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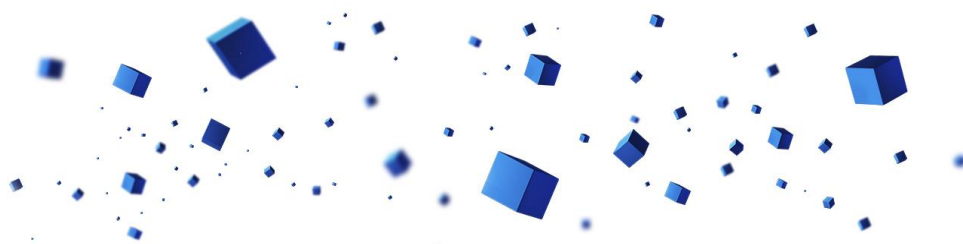
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1 Introduction 前言

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.

本物质清单阐述了制品里各类化学物质的限值，及在制品生产过程中各类化学物质的禁用要求。

众所周知，由于限用化学品物质的个数繁多以及种类差异，消费者安全限值无法仅仅依靠测试消费用品和/或供应商自我声明得以有效控制。这就是 bluesign® system 整合包含化学品供应商在内的生产供应链的出发点。只有采用结合了 bluesign® system partners 合作伙伴网络的输入流管理系统，才能更清楚地了解化学品，并确保限用及禁用的目标得以实现。

2 Definitions 定义

2.1 Accessory 辅料

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

消费品其中不归类为纺织面料的组成部分（如：纽扣、标签、拉链等）

2.2 Article 制品

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.).

通过生产被赋予特殊的形状，外观或设计，从而使其在原有的化学组分基础上引申出更广泛更丰富功能的一件物品(纤维、布料、纽扣、拉链等)。

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 物质清单-消费者安全限值。 本清单列出制品中可含化学物质的消费者安全限值,以及订定禁止用于生产制品的化学物质的使用限制。

2.4 CAS 化学品文摘号

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.

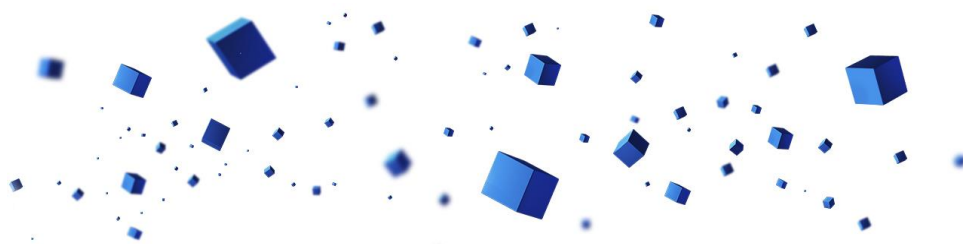
CAS 化学品文摘号是对化学元素、化合物、聚合物、生物学序列、混合物和合金的一种独特的数字识别码。化学文摘社(CAS)是美国化学学会的一个部门，负责为每一个在文献中有描述的化学品编上识别码。由于化学品通常都有很多不同名称，该识别码可以令数据库搜索时更便捷。迄今为止，几乎所有的分子式数据库都可以透过 CAS 化学品文摘号进行搜索。

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2.5 Chemical substance 化学物质

A chemical element and its compounds with constant composition and properties. It is defined by the CAS number.

一种化学元素及其化合物，具有特定的化学成分和属性，可用 CAS 化学品文摘号识别。

2.6 Component 组成

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.

制品中可单独拆分的一部分，可根据材料、功能和/或颜色区分，可以用简易的物理方法自其它组成中区别开来的部分。

2.7 Detection limit (DL) 检出限

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.

检出限，是指采用某一特定的分析方法能够检测出样品中待测物质的最低量。

2.8 Limit value 限值

The maximum amount of chemical substances permitted in articles for the usage ranges A, B and C.

在使用类别 A、B 和 C 对应的制品里化学物质的最大允许含量。

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.

由两种或多种物质组成的化学产品，例如：着色剂或助剂。

2.10 Monitoring 监控

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.

对于某些化学物质，其毒理学特性和/或生态学特性仍未被人们完全所知，因此对它们的风险评估并不是完整的。某些化学物质在现阶段尚未有充分关于在制品或化学品上的潜在/特定交叉污染等信息，因此这些物质有待持续观察。一旦有更多数据，将会立即制定准确的限用规定。若该物质同时在监控状态及限值并存的情况下，应将执行并符合限值要求作为目标。

2.11 Several 多个

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.

多个表示该整个物质组别都被限用，但不是所有该物质组别内被限用的物质都会逐一列出。本清单中所列出的属于该物质组别的限用物质，当该物质组别涉及到检测时，属于需要包含在检测内的限用物质。

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.

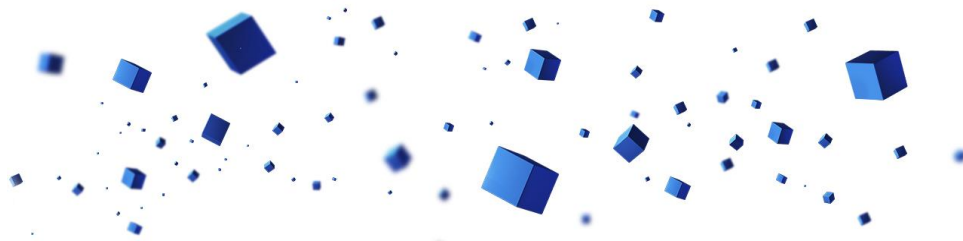
禁用的化学物质出于未知来源会以极其小量浓度残留制品内。痕量即指对这些不可避免的残留化学品制定的最小限值。

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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.

某些化学物质或其同类被列为禁用，不得刻意用于生产制品中。即生产过程中使用的化学物质(如着色剂，纺织助剂等)不得刻意含有这些被禁用物质或其同类。禁用的目的就是通过预防措施阻止有害物质排放到环境中并残留在制品内。

2.14 Usage range 使用类别

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

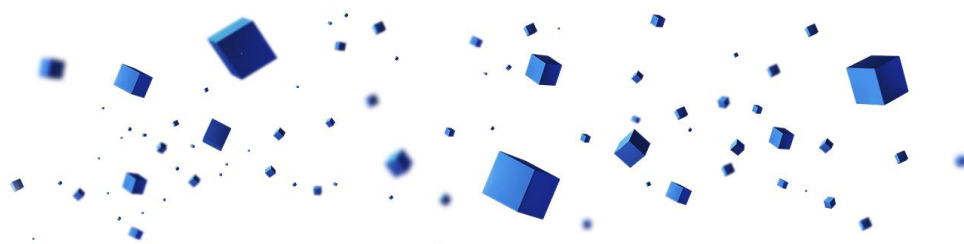
Three usage ranges (A, B, C) are defined with A being the most stringent category concerning limit values/bans:

使用类别是依据消费者安全要求对消费用品进行分类。使用类别分三类(A,B,C)，其中 A 类有最为严格的限值及禁用要求：

- Usage Range A: Next to skin use and baby articles (0 to 3 years)
使用类别 A：紧贴皮肤类和婴儿类(零至三岁)
- Usage Range B: Occasional skin contact
使用类别 B：偶尔接触皮肤类
- Usage Range C: No skin contact
使用类别 C：不接触皮肤类

Annex II lists common consumer goods and allocates usage ranges.

附录 II 列出常用的消费用品及其对应的使用类别。



3 Testing methods 测试方法

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 章每张表格的最后一列所列的测试方法, 均为推荐的测试方法, 包含测试样制备比如萃取, 分解, 衍生等, 和仪器分析方法比如 GC-MS, LC-MS, HPLC 等。引用的仪器分析方法, 部分是国际标准或国家标准。除此以外的分析方法, 需事先验证测试结果是否等同后方可采用。

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

测试样品制备列表如下:

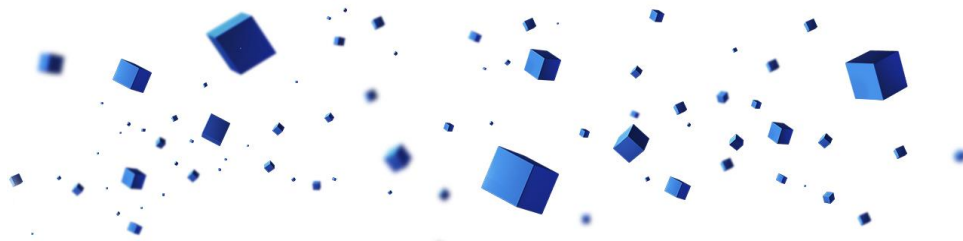
Sample preparation 测试样品制备	Solvent(s) 溶剂	Temperature (°C) 温度(°C)	Time (min) 时间 (分钟)	Other requirements 其他要求
Extraction with KOH 氢氧化钾萃取	Potassium Hydroxide (1M) 氢氧化钾 (1M)	90	12-15 小时	Derivatisation with Acetic anhydride 醋酸酐衍生法
Extraction with MeOH 甲醇萃取	Methanol 甲醇	70	60	Ultrasonic bath 超声波萃取
Extraction with THF 四氢呋喃萃取	Tetrahydrofuran 四氢呋喃	40	60	
Extraction with DCM 二氯甲烷萃取	Dichloromethane 二氯甲烷	40	60	Ultrasonic bath 超声波萃取
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 超声波萃取
Extraction with water 去离子水萃取	Deionized water 去离子水			
Extraction with MeOH/Acetonitrile 甲醇/乙腈萃取	Methanol/Acetonitrile (1:1) 甲醇/乙腈(1:1)	70	30	Ultrasonic bath 超声波萃取
Extraction with Potassium carbonate solution 碳酸钾萃取	Potassium carbonate solution 碳酸钾溶液	Room temp. 室温	60	Ultrasonic bath 超声波萃取
Extraction with THF/Acetone 四氢呋喃/丙酮萃取	Tetrahydrofuran/Acetone 四氢呋喃/丙酮	60	60	Ultrasonic bath, derivatization with Acetonitrile 超声波萃取, 乙腈 衍生法
Extraction with Acetone 丙酮萃取	Acetone 丙酮	70	60	Ultrasonic bath 超声波萃取

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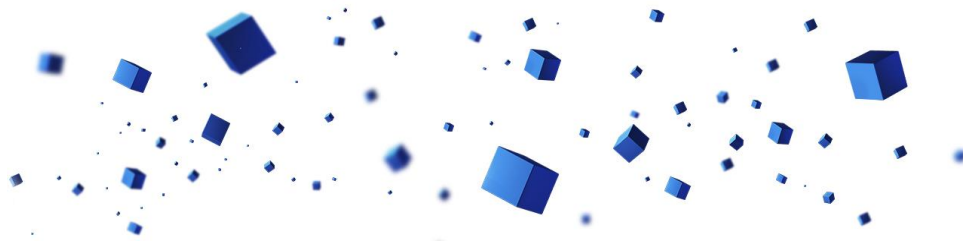
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Extraction with Hexane/Dichloroethane 己烷/二氯乙烷萃取	Hexane/Dichloroethane 己烷/二氯乙烷	70	60	
ASE - Accelerated Solvent Extraction 加速溶剂萃取	Acetone/Hexane (1:1) 丙酮/己烷(1:1)	100	-	
ASE - Accelerated Solvent Extraction 加速溶剂萃取	Ethyl acetate 乙酸乙酯	40	-	
Soxhlet Extraction 索氏萃取	Acetone/Hexane (1:1) 丙酮/己烷(1:1)	-	480	
Headspace 顶空进样	-	120	45	
DIN EN ISO 105-E04 (2013)	Acidic sweat solution 酸性汗渍溶液	37	60	Textile to liquor ratio 1:50 浴比 1:50

For headspace measurements a purge & trap gas chromatography is recommended.
顶空进样检测, 建议采用吹扫捕集气相色谱法。



4 Scope and validity 适用范围和有效性

The document specifies restrictions (limits and bans) for chemical substances in
本物质清单对化学物质的限用规定(限值 and 禁用)适用于:

- articles made of textile and leather
以纺织面料和皮革制成的制品
- accessories for textile and leather articles
用于纺织制品和皮革制品的辅料

4.1 Application 使用范围

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.

半成品或成品的每个单一组成都必须符合限用规定。单一组成是指一件制品里的不同部分，可根据材料类别、和/或功能、和/或颜色，可以简单地以物理方法与其他组成区别开来的部分。

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.

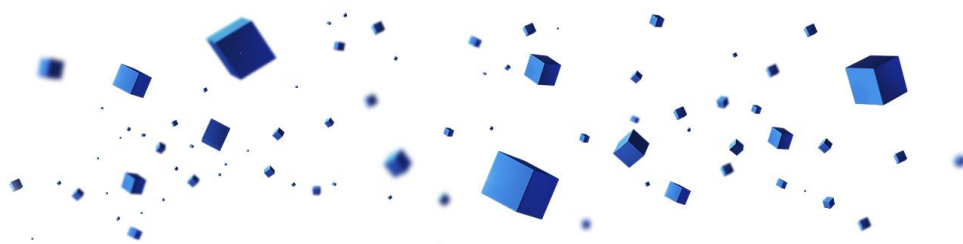
For all bluesign® SYSTEM PARTNERS the implementation of the revised sections (new substances marked grey), unless stated otherwise, shall take place by July 1, 2020 at the latest.

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

本物质清单于 2019 年 07 月 01 日生效执行，同时取代 2018 年 07 月 01 日 9.0 版本。

所有 bluesign® system partners 应不迟于 2020 年 07 月 01 日执行增改的章节。

本文件根据最新的法规、研究及 bluesign® 合作伙伴的反馈每年更新一次。



5 Consumer safety limits and usage restrictions 消费者安全限值和限制

Section 5.1 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 节详细阐述消费者安全限值和限制。

第 5.2 节概述与消费者安全不直接相关但是在 bluesign® system 列为禁用或限用的化学物质，这些化学物质只用在最初的生产工序中，通常不会在消费用品中残留。

附录 I 列出各类别的限用物质：石棉类，氯代苯和氯代甲苯，可裂解致癌芳香胺的着色剂，二噁英和呋喃，含氟温室气体，臭氧消耗物质和杀虫剂。

附录 II 阐述 bluesign® system 体系内的使用类别，并依据消费者安全相关度，对消费用品进行划分。

5.1 Consumer safety limits 消费者安全限值

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 节列出的限用及禁用的化学物质外，第 5.1.1 节至第 5.1.5 节所列出的化学物质限制同等有效。

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)

测试方法: ISO 3071 (2005) (非皮革产品), ISO 4045 (2008) (皮革产品)

限值: 4.0 - 7.5 (非皮革产品), 3.5 - 7.5 (皮革产品)

5.1.2 Odor 气味

No unpleasant odor shall be emitted from the products.

Test method: SNV 195 651

产品不得释放令人不愉快的气味。

测试方法: 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.

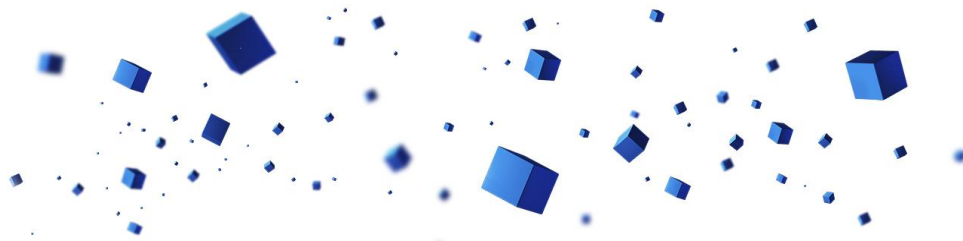
危险品代码 R 43/H 317 所列的致敏分散染料不得用于 A 类。

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5.1.4 Textiles dyed with disperse or metal complex dyes 使用分散染料或金属络合染料着色的纺织品

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 ≥ 4 .

Test method: ISO 105-E04 (2013)

分散染料和金属络合物染料有导致消费者安全的风险；因此对此类纺织品的汗渍牢度也有特别的限制：

分散染料或金属络合染料染色的纺织品汗渍牢度不得低于 3-4 级，应以达到 4 级以上为目标。

测试方法: DIN EN ISO 105-E04 (2013)

5.1.5 Color fastness to saliva and perspiration 唾液和汗渍牢度

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.

与口腔接触的制品或婴儿用品必须进行唾液和汗渍的牢度测试。这相当于目前有效标准 DIN53160-1(2010)(用人工唾液测试)和 DIN53160-2 (2010)(用人工汗液测试)的 5 级测试。在纺织品牢度测试中用来判定颜色变化的 5 阶段灰度级距可透过 ISO105-A02(1993)了解详情。

测试方法: § 64 LFGB; BVL B 82.10-1 及与 DIN53160-1 和-2 结合

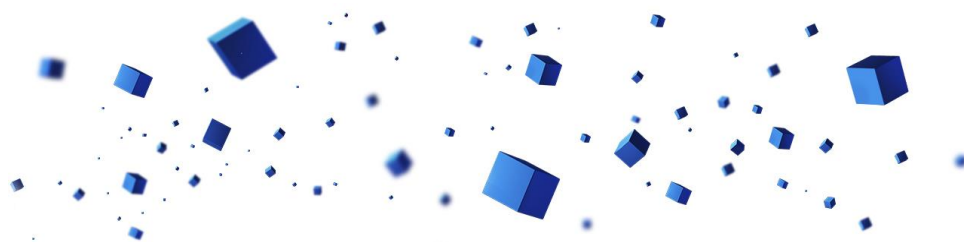
5.1.6 Restrictions and bans for chemical substances 限用和禁用的化学物质

For easier comprehension and overview the substances are listed in groups according to the
为了便于理解和概述，相关物质按照以下分组列出：

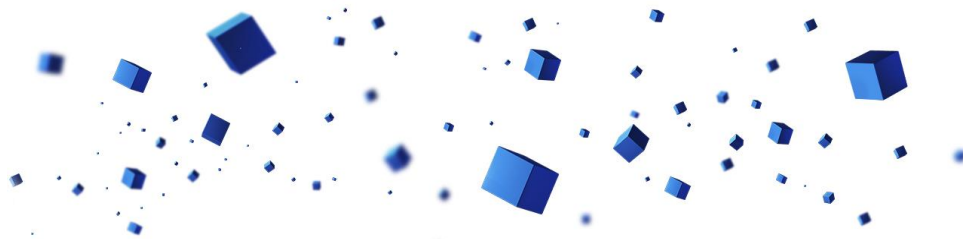
- chemical composition (e.g. amines, isocyanates)
化学成分（如胺类，异氰酸酯类）
- functionality (e.g. flame retardants, solvents)
功能性（如阻燃剂，溶剂）
- EHS-properties/risks (e.g. greenhouse gases, ozone depleting substances)
环境、健康及安全影响（如温室气体，臭氧消耗物质）

Note 注解:

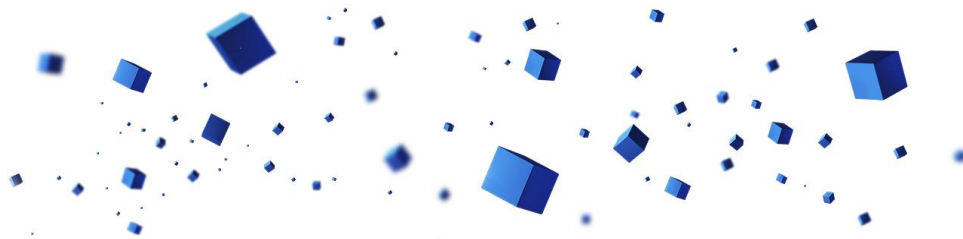
Some of the substances may be relevant for more than one group; in such cases the substance is listed in the most likely group.
若该化学物质可分属至多个类别，该物质将会在最相关的类别中列出。



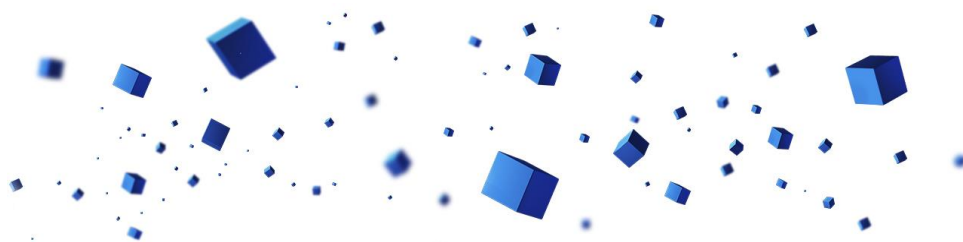
Aldehydes 醛类					
Chemical Substances 化学物质	CAS Number 化学品文摘号	Limit Value 限值 [mg/kg] Usage range 使用类别			Recommended Sample Preparation // Test Method 推荐样品制备//测试方法
		A	B	C	
Acrolein 丙烯醛	107-02-8	Usage ban // Traces: 1.0 禁用//痕量: 1.0			Extraction with MeOH // LC-MS 甲醇萃取//LC-MS
Acetaldehyde 乙醛	75-07-0	10	10	100	Extraction with MeOH // LC-MS 甲醇萃取//LC-MS
Formaldehyde 甲醛	50-00-0	DL: 15 检出限: 15	75	300	Textile 纺织品: 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:监控			



Alkylphenols and Alkylphenoethoxylates 烷基酚和烷基酚聚氧乙烯醚					
Chemical Substances 化学物质	CAS Number 化学品文摘号	Limit Value 限值 [mg/kg] Usage range 使用类别			Recommended Sample Preparation // Test Method 推荐样品制备//测试方法
		A	B	C	
Alkylphenols (APs) 烷基酚	Several 多个	Usage ban // Traces: 10 for every single substance 禁用//痕量: 每个物质 10			Textile 纺织品: ISO 18254-1 (2016) Leather 皮革: ISO 18218-1 (2015)
Nonylphenol, mixed isomers 壬基酚, 及其混合异构体	25154-52-3				
Isononylphenol 异壬基酚	11066-49-2				
4-Nonylphenol 4-壬基酚	104-40-5				
4-Nonylphenol, branched 4-壬基酚, 支链	84852-15-3				
Octylphenol 辛基酚	27193-28-8				
4-Octylphenol 4-对辛基酚	1806-26-4				
4-tert-Octylphenol 4-叔-辛基酚	140-66-9				
4-Heptylphenol, branched and linear 4-庚基酚, 支链和直链	-				
4-Nonylphenol, branched and linear 4-壬基酚, 支链和直链	-				
p-(1,1-Dimethylpropyl)phenol 对-(1,1-二甲基丙基)苯酚	80-46-6				
Alkylphenoethoxylates (APEOs) (EO) ₃₋₂₀ 烷基酚聚氧乙烯醚(聚氧乙烯醚聚合度:3-20)	Several 多个	Usage ban // Traces: 100 for every single substance 禁用//痕量: 每个物质 100 (If traces above 10 are detected the source of contamination has to be identified and phased out)			Textile 纺织品: ISO 18254-1 (2016) Leather 皮革: ISO 18218-1 (2015)
Isononylphenol, ethoxylated 乙氧基异壬基酚	37205-87-1				
Nonylphenol, branched, ethoxylated 乙氧基壬基酚,支链	68412-54-4				
Nonylphenol, branched, ethoxylated, phosphate 乙氧基壬基酚磷酸酯,支链	68412-53-3				
4-Nonylphenol, branched, ethoxylated 乙氧基 4-壬基酚,支链	127087-87-0				
Octylphenol, ethoxylated 乙氧基辛基酚,支链	9036-19-5				



Octyl phenol ethoxylate, branched 9.5EO 乙氧基辛基酚,支链 9.5EO	68987-90-6	(如检测出超过 10 的 痕量, 必须排查污染来 源, 同时做出改进)	
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 对壬基酚聚氧乙烯醚	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,支链	-		
4-Nonylphenol, branched and linear, ethoxylated 乙氧基 4-壬基酚, 支链和直链	-		



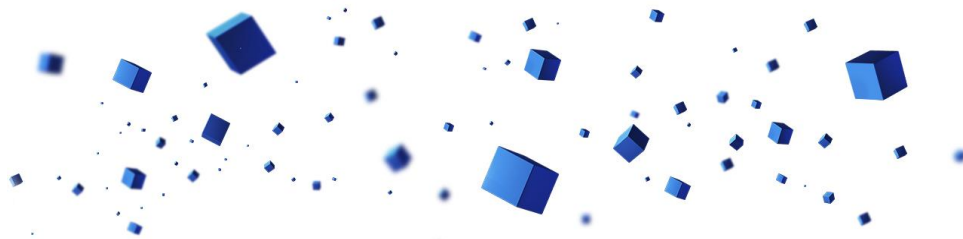
Amines 胺类					
Chemical Substances 化学物质	CAS Number 化学品文摘号	Limit Value 限值 [mg/kg] Usage range 使用类别			Recommended Sample Preparation // Test Method 推荐样品制备//测试方法
		A	B	C	
2-Aminoethanol 2-氨基乙醇	141-43-5	100	200	200	Extraction with MeOH // GC-MS 甲醇萃取//GC-MS
Aminoethylethanolamine (AEEA) 氨基乙基乙醇胺	111-41-1	Usage ban // DL: 10 禁用//检出限: 10			Extraction with MeOH // GC-MS 甲醇萃取//GC-MS
Aniline (free) 游离苯胺	62-53-3	Usage ban // DL: 30 禁用//检出限: 30			Extraction with MeOH // LC-MS 甲醇萃取//LC-MS
Fatty acid condensation products with AEEA which may cleave to AEEA 会裂解 AEEA 的脂肪酸/AEEA 缩聚物	Several 多个	Usage ban // DL: 10 禁用//检出限: 10			Extraction with MeOH and derivatisation with acetylacetone/water // LC-MS 甲醇萃取并用乙酰丙酮/水衍生//LC-MS
Dicyclohexylamine 二环己基胺	101-83-7	500	500	500	Extraction with MeOH // GC-MS 甲醇萃取//GC-MS
		Monitoring 监控			
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 监控			
Diphenylamine 二苯胺	122-39-4	100	100	100	
		Monitoring 监控			
Dipropylenetriamine 二亚丙基三胺	56-18-8	50	50	50	
		Monitoring 监控			
Ethylenediamine 乙二胺	107-15-3	Usage ban // DL: 10 禁用//检出限: 10			
Hexamethylenetetramine 环六亚甲基四胺	100-97-0	10	50	50	
Imidazole 咪唑	288-32-4	Usage ban // DL: 10 禁用//检出限: 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.

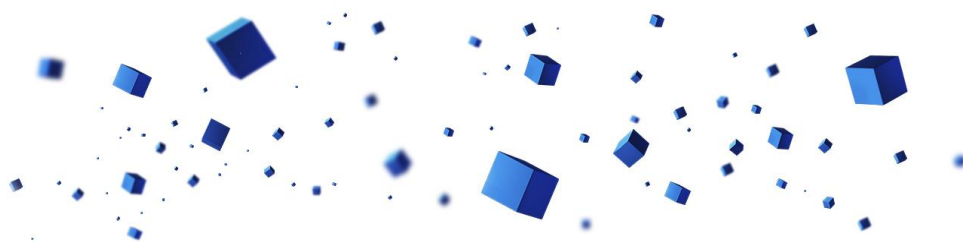
本文为英文编写，为便于理解翻译为中文。如中英文不一致时，以英文文本为准。

bluesign® system substances list 物质清单 (BSSL) | v10.0 | September 15, 2019

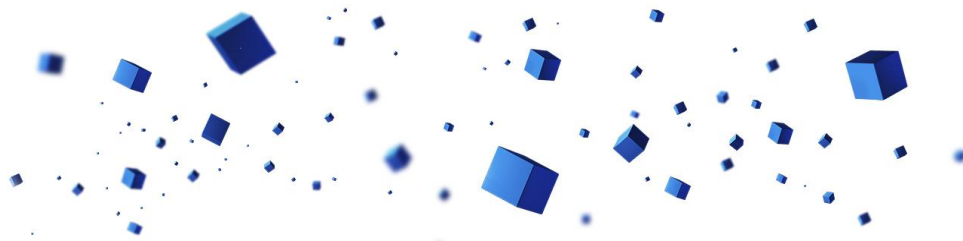
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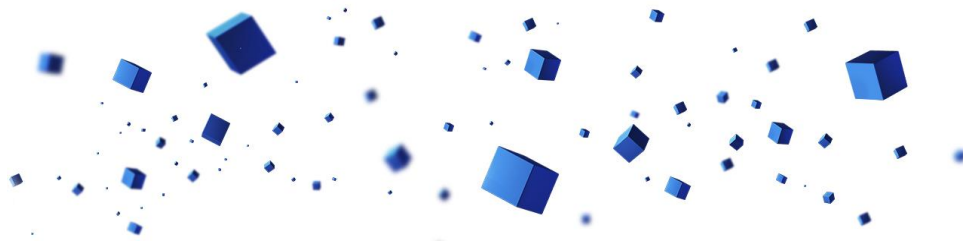
N-Methylaniline (Methylphenylamine) N-甲基苯胺(甲苯胺)	100-61-8	20	20	20	
2-Naphthylphenylamine N-苯基-2 萘胺	135-88-6	Usage ban // DL: 1.0 禁用//检出限:1.0			
p-Phenylenediamine 对苯二胺	106-50-3	Usage ban // DL: 20 禁用//检出限: 20			
p-Phenylenediamine-dihydrochloride 对苯二胺二盐酸盐	624-18-0	Usage ban // DL: 20 禁用//检出限: 20			
Triethanolamine 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	



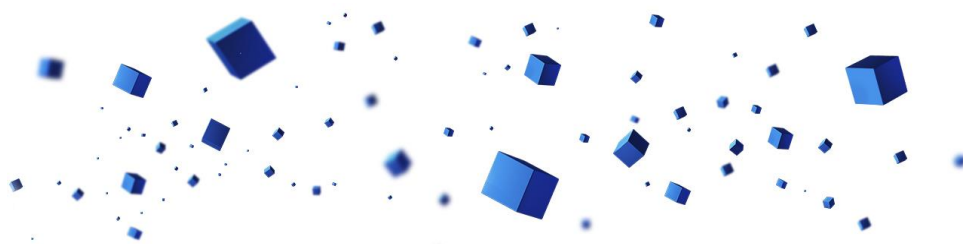
Arylamines (including corresponding salts) 芳香胺及其盐					
Part 1 第一部分					
(as substance, for example in PU, and as decomposition product of azo colorants which, by reductive cleavage of one or more azo groups, may release one or more of the aromatic amines)					
(诸如聚氨酯和偶氮染料中某些成分会通过还原裂解释放出芳香胺)					
Chemical Substances 化学物质	CAS Number 化学品文摘号	Limit Value 限值 [mg/kg] Usage range 使用类别			Recommended Sample Preparation // Test Method 推荐样品制备//测试方法
		A	B	C	
p-Aminoazobenzene 对氨基偶氮苯	60-09-3	Usage ban // DL: 20 for every single aromatic amine 禁用// 检出限: 每个芳香胺 20			Textile 纺织品: EN ISO 14362-1 (2017) EN ISO 14362-3 (2017) (for azo colorants which may release 4- Aminoazobenzene) (会释放对氨基偶氮苯的着色 剂) Leather 皮革: EN ISO 17234-1 (2015) EN ISO 17234-2 (2011) (for azo colorants which may release 4- Aminoazobenzene) (会释放对氨基偶氮苯的着色 剂)
o-Aminoazotoluene 邻氨基偶氮甲苯	97-56-3				
4-Aminobiphenyl 4-氨基联苯	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 邻氨基苯甲醚	90-04-0				
Benzidine 联苯胺	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-氯邻甲苯胺盐酸盐	3165-93-3				
p-Cresidine 对甲酚啶	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				



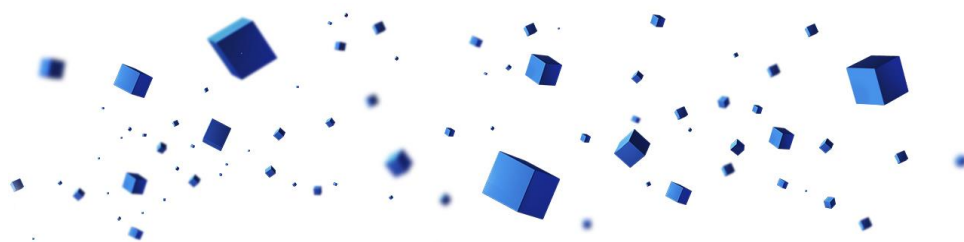
3,3'-Dichlorobenzidine 3,3'-二氯联苯胺	91-94-1		
3,3'-Dimethoxybenzidine 3,3'-二甲氧基联苯胺	119-90-4		
3,3'-Dimethylbenzidine 3,3'-二甲基联苯胺	119-93-7		
3,3'-Dimethyl-4,4'-diaminodiphenylmethane 3,3'-二甲基-4,4'-二氨基二苯甲烷	838-88-0		
4-Methoxy-m-phenylene diammonium sulphate; 2,4-diaminoanisole sulphate 2,4-二氨基苯甲醚磺酸盐	39156-41-7		
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-萘基醋酸铵	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 间甲苯胺	108-44-1		
o-Toluidine 邻甲苯胺	95-53-4		
p-Toluidine 对甲苯胺	106-49-0		



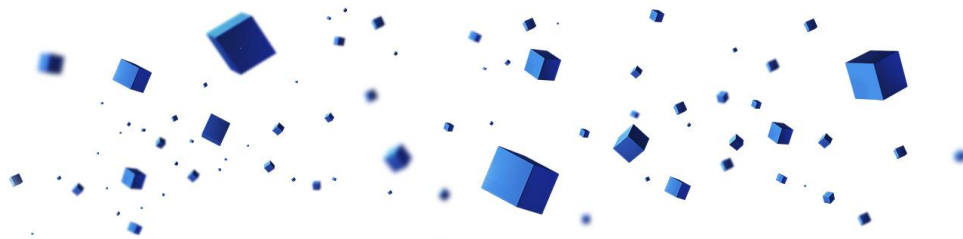
Arylamines (including corresponding salts) 芳香胺及其盐 Part 2 第二部分 (as substance, for example in PU, and as decomposition product of azo colorants which, by reductive cleavage of one or more azo groups, may release one or more of the aromatic amines) (诸如聚氨酯和偶氮染料中某些成分会通过还原裂解释放出芳香胺)			
2,4,5-Trimethylaniline 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) (会释放对氨基偶氮苯的着色剂) Leather: EN ISO 17234-1 (2015) EN ISO 17234-2 (2011) (for azo colorants which may release 4-Aminoazobenzene) (会释放对氨基偶氮苯的着色剂)
2,4,5-Trimethylaniline hydrochloride 2,4,5-三甲基苯胺盐酸盐	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// 检出限: 每单个芳香胺 20	



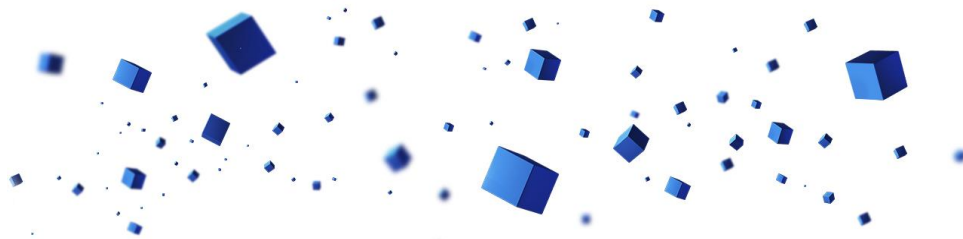
Asbestos 石棉						
Chemical Substances 化学物质	CAS Number 化学品文摘号	Limit Value 限值 [mg/kg] Usage range 使用类别			Recommended Sample Preparation // Test Method 推荐样品制备//测试方法	
		A	B	C		
Asbestos 石棉 (Single substances listed in Annex I) (各别物质详见附录 I)	Several 多个	Usage ban // Not detected 禁用 // 未检出			REM/EDX BGI 505-46 or 或 U.S. EPA/600/R-93/116	



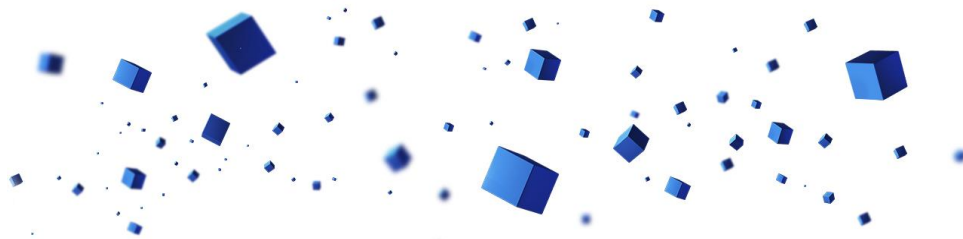
Biocides 杀菌剂					
Part 1 第一部分					
Chemical Substances 化学物质	CAS Number 化学品文摘号	Limit Value 限值 [mg/kg] Usage range 使用类别			Recommended Sample Preparation // Test Method 推荐样品制备//测试方法
		A	B	C	
2-Chloroacetamide 2-氯乙酰氨	79-07-2	Usage ban // DL: 1.0 禁用//检出限:1.0			Extraction with MeOH // GC-MS 甲醇萃取//GC-MS
4-Chloro-3-methylphenol (CMK/CMC) 4-氯-3-甲基酚	59-50-7	For leather 皮革: Monitoring 监控			ISO 13365 (2011)
Dichlorophen 双氯酚	97-23-4	Usage ban // DL: 1.0 禁用//检出限:1.0			Derivatisation with acetic anhydride // GC-MS 醋酸酐衍生 // GC-MS
Chlorinated and non-chlorinated Isothiazolinone-derivatives 氯代和非氯代的异噻唑啉酮类衍生物		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-异噻唑啉-3-酮	26172-55-4	Traces from preservatives: 1 防腐剂中痕量: 1			
2-Methyl-4-isothiazolin-3-one (MIT) 2-甲基-4-异噻唑啉-3-酮	2682-20-4	Traces from preservatives: 50 防腐剂中痕量: 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 见各别物质的限值			
2-n-Octyl-4-isothiazolin-3-one (OIT) N-辛基异噻唑啉酮	26530-20-1	Traces from preservatives: 25 防腐剂中痕量: 25			
1,2-Benzoisothiazol-3(2H)-one (BIT) 1,2-苯并异噻唑-3-酮, 1,2-苯并异噻唑啉酮	2634-33-5	Traces from preservatives: 25 防腐剂中痕量: 25			
Dichlorooctylisothiazolinone (DCOIT) 4,5-二氯-2-正辛基-3-异噻唑啉酮 (DCOIT)	64359-81-5	Usage ban // DL: 15 禁用//检出限: 15			
N-Methylol-chloroacetamide N-羟甲基氯乙酰胺	2832-19-1	Usage ban // DL: 1.0 禁用//检出限: 1.0			Extraction with MeOH // GC-MS 甲醇萃取//GC-MS



<p>Permethrin 苄氯菊酯</p>	<p>52645-53-1</p>	<p>Usage ban for A and B // DL: 1.0 禁用在 A 类和 B 类// 检出限: 1.0</p> <p>Usage range C // See bluesign® criteria for biocidal products and antimicrobial active substances</p> <p>C 类使用范围// 详见 bluesign® criteria 杀菌和抗菌化学品准则</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>
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Biocides 杀菌剂					
Part 2 第二部分					
Chemical Substances 化学物质	CAS Number 化学品文摘号	Limit Value 限值 [mg/kg] Usage range 使用类别			Recommended Sample Preparation // Test Method 推荐样品制备//测试方法
		A	B	C	
o-Phenylphenol 邻苯基苯酚	90-43-7	For textiles 纺织品:			Extraction with KOH 氢氧化钾 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 监控			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 类和 B 类// 检出限: 1.0 Usage range C // See bluesign® criteria for biocidal products and antimicrobial active substances C 类使用范围// 详见 bluesign® criteria 杀菌和抗菌化学品准则			Extraction with DCM // GC- MS 二氯甲烷萃取//GC-MS



Chlorinated Benzenes and Toluenes 氯代苯和氯代甲苯类					
Chemical Substances 化学物质	CAS Number 化学品文摘号	Limit Value 限值 [mg/kg] Usage range 使用类别			Recommended Sample Preparation // Test Method 推荐样品制备//测试方法
		A	B	C	
Chlorinated benzenes 氯代苯类		Usage ban // DL: 1.0 for every single substance 禁用//检出限： 每单个物质 1.0			DIN 54232 (2010)
Monochlorobenzene 一氯苯	108-90-7				
Dichlorobenzenes, all isomers (Single substances listed in Annex I) 二氯苯,及其异构体 (各别物质详见附录 I)	Several 多个				
Trichlorobenzenes, all isomers (Single substances listed in Annex I) 三氯苯,及其异构体 (各别物质详见附录 I)	Several 多个				
Tetrachlorobenzenes, all isomers (Single substances listed in Annex I) 四氯苯,及其异构体 (各别物质详见附录 I)	Several 多个				
Pentachlorobenzene 五氯苯	608-93-5				
Hexachlorobenzene 六氯苯	118-74-1				
Chlorinated toluenes 氯代甲苯类		For sum of all chlorinated benzenes and toluenes: 5.0 氯代苯和氯代甲苯总和 不得超过：5.0			
Monochlorotoluenes, all isomers (Single substances listed in Annex I) 一氯甲苯,及其异构体 (各别物质详见附录 I)	Several 多个				
Dichlorotoluenes, all isomers 二氯甲苯,及其异构体 (各别物质详见附录 I)	Several 多个				
Trichlorotoluenes, all isomers 三氯甲苯,及其异构体 (各别物质详见附录 I)	Several 多个				
Tetrachlorotoluenes, all isomers 四氯甲苯,及其异构体 (各别物质详见附录 I)	Several 多个				
Pentachlorotoluene 五氯甲苯	877-11-2				
Chlorotoluene, unspecific mixture 氯甲苯, 不特定混合物	25168-05-2				

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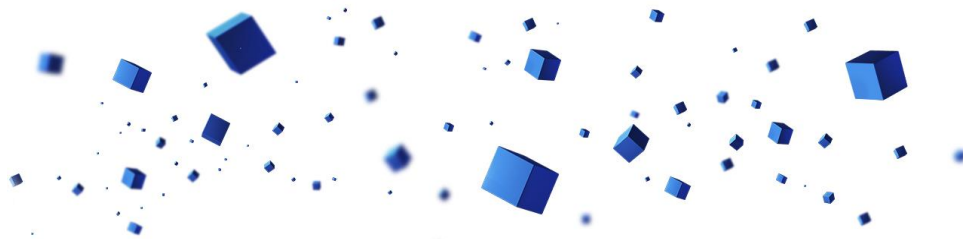
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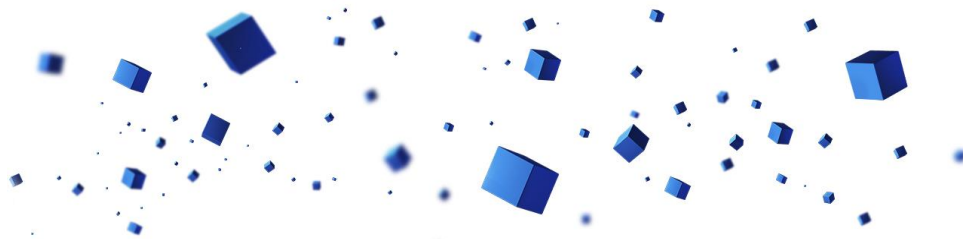
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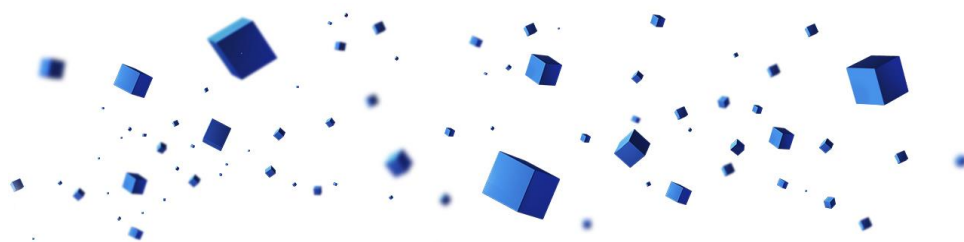
Chlorinated Phenols 氯代苯酚					
Part 1 第一部分					
Chemical Substances 化学物质	CAS Number 化学品文摘号	Limit Value 限值 [mg/kg] Usage range 使用类别			Recommended Sample Preparation // Test Method 推荐样品制备//测试方法
		A	B	C	
Monochlorophenols (MonoCPs), all isomers 一氯苯酚, 及其异构体	25167-80-0	Usage ban 禁用			Extraction with KOH // § 64 LFGB B 82.02-8 (2001) or DIN EN ISO 17070 (2015) 氢氧化钾萃取// § 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 所有单氯苯酚和二氯苯 酚总和			
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, 及其异构体	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, 及其异构体	25167-82-2				
		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 所有三氯苯酚总和			
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				



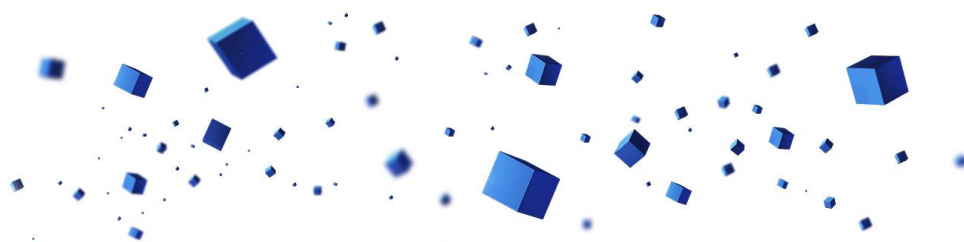
Chlorinated Phenols 氯代苯酚						
Part 2 第二部分						
Chemical Substances 化学物质	CAS Number 化学品文摘号	Limit Value 限值 [mg/kg] Usage range 使用类别			Recommended Sample Preparation // Test Method 推荐样品制备//测试方法	
		A	B	C		
Tetrachlorophenol (TeCP), salts and compounds 四氯苯酚, 及其盐和化合物	25167-83-3	Usage ban 禁用			Extraction with KOH // § 64 LFGB B 82.02-8 (2001) or DIN EN ISO 17070 (2015) 氢氧化钾萃取 // § 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 所有四氯苯酚总和				
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, 及其盐和化合物	87-86-5	Usage ban 禁用				
		Traces 痕量:				
		0.05	0.5	0.5		
		Sum of all PCPs 所有五氯苯酚总和				



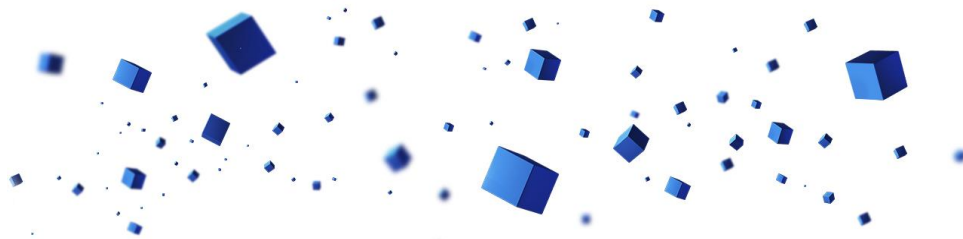
Colorants 着色剂					
Colorants with carcinogenic potential 可致癌着色剂					
Chemical Substances 化学物质	CAS Number 化学品文摘号	Limit Value 限值 [mg/kg] Usage range 使用类别			Recommended Sample Preparation // Test Method 推荐样品制备//测试方法
		A	B	C	
Acid Red 26 酸性红 26	3761-53-3	Usage ban // DL: 20 for every single substance 禁用 // 检出限: 每个物质 20			DIN 54231 (2005)
Basic Green 4 碱性绿 4	Several 多个				
Malachite green 孔雀石绿	10309-95-2				
Malachite green chloride 孔雀石绿盐酸物	569-64-2				
Malachite green oxalate 孔雀石绿草酸盐	2437-29-8				
Basic Red 9 碱性红 9	569-61-9				
Basic Violet 14 碱性紫 14	632-99-5				
Direct Black 38 直接黑 38	1937-37-7				
Direct Blue 6 直接蓝 6	2602-46-2				
Direct Red 28 直接红 28	573-58-0				
Disperse Blue 1 分散蓝 1	2475-45-8				
Disperse Orange 11 分散橙 11	82-28-0				
Disperse Yellow 3 分散黄 3	2832-40-8				
Pigment Black 25 颜料黑 25	68186-89-0				
Pigment Yellow 34 颜料黄 34	1344-37-2				
Pigment Yellow 157 颜料黄 157	68610-24-2				
Pigment Red 104 颜料红 104	12656-85-8				
Solvent Yellow 2 (4-Dimethylaminoazobenzene) 溶剂黄 2 （4-二甲胺偶氮苯）	60-11-7				



Colorants with allergenic potential 可致敏着色剂					
Chemical Substances 化学物质	CAS Number 化学品文摘号	Limit Value 限值 [mg/kg] Usage range 使用类别			Recommended Sample Preparation // Test Method 推荐样品制备//测试方法
		A	B	C	
Disperse Blue 3 分散蓝 3	2475-46-9	Usage ban // DL: 20 for every single substance 禁用// 检出限: 每个 物质 20			DIN 54231 (2005)
Disperse Blue 7 分散蓝 7	3179-90-6				
Disperse Blue 26 分散蓝 26	3860-63-7				
Disperse Blue 35 分散蓝 35	12222-75-2 56524-77-7				
Disperse Blue 102 分散蓝 102	12222-97-8				
Disperse Blue 106 分散蓝 106	12223-01-7				
Disperse Blue 124 分散蓝 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 分散红 1	2872-52-8				
Disperse Red 11 分散红 11	2872-48-2				
Disperse Red 17 分散红 17	3179-89-3				
Disperse Yellow 1 分散黄 1	119-15-3				
Disperse Yellow 9 分散黄 9	6373-73-5				
Disperse Yellow 39 分散黄 39	12236-29-2				
Disperse Yellow 49 分散黄 49	54824-37-2				
Solvent Yellow 14 溶剂黄 14	842-07-9				



Colorants banned for other reasons 其他禁用着色剂					
Chemical Substances 化学物质	CAS Number 化学品文摘号	Limit Value 限值 [mg/kg] Usage range 使用类别			Recommended Sample Preparation // Test Method 推荐样品制备//测试方法
		A	B	C	
Acid Orange 24 酸性橙 24	1320-07-6	Usage ban // DL: 20 for every single substance 禁用// 检出限：每单个 物质 20			DIN 54231 (2005)
Acid Violet 49 酸性紫 49	1694-09-3				
Basic Blue 26 碱性蓝 26	2580-56-5				
Basic Violet 1 碱性紫 1	8004-87-3				
Basic Violet 3 碱性紫 3	548-62-9				
	603-48-5				
	14426-25-6				
Direct Black 91 直接黑 91	6739-62-4				
Direct Blue 76 直接蓝 76	16143-79-6				
Direct Blue 218 直接蓝 218	28407-37-6				
Direct Yellow 1 直接黄 1	6472-91-9				
Disperse Yellow 23 分散黄 23	6250-23-3				
Disperse Orange 149 分散橙 149	85136-74-9				
Navy Blue 海军蓝: 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 组分 1: CAS-No: 118685-33-9 C39H23ClCrN7O12S.2Na Component 组分 2: C46H30CrN10O20S2.3Na	EC-number: 405-665-4				
	Component 1 组分 1: 118685-33-9				
	Component 2 组分 2: Not allocated 未编号				
Solvent Blue 4 溶剂蓝 4	6786-83-0				



Colorants which can cleave in carcinogenic amines 可裂解出致癌芳香胺的着色剂					
Chemical Substances 化学物质	CAS Number 化学品文摘号	Limit Value 限值 [mg/kg] Usage range 使用类别			Recommended Sample Preparation // Test Method 推荐样品制备//测试方法
		A	B	C	
Colorants which can cleave in carcinogenic amines 可裂解出致癌芳香胺的着色剂 (Single substances listed in Annex I) (各别物质详见附录 I)	Several 多个	Usage ban // DL: 20 for every single substance 禁用 // 检出限: 每单个物质 20			DIN 54231 (2005)

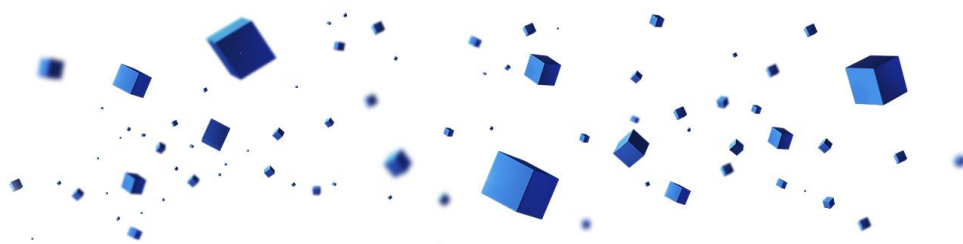
Dioxins and Furans 二噁英及呋喃					
Chemical Substances 化学物质	CAS Number 化学品文摘号	Limit Value 限值 [mg/kg] Usage range 使用类别			Recommended Sample Preparation // Test Method 推荐样品制备//测试方法
		A	B	C	
Group 组别 1 (Single substances listed in Annex I) (各别物质详见附录 I)	Several 多个	Usage ban // Sum of all traces group 1: 1.0 [µg/kg] 禁用 // 组别 1 痕量总和: 1.0 [µg/kg]			EPA 8290A
Group 组别 2 (Single substances listed in Annex I) (各别物质详见附录 I)	Several 多个	Usage ban //Sum of all traces group 1 and 2: 5.0 [µg/kg] 禁用 // 组别 1/2 痕量总和: 5.0 [µg/kg]			
Group 组别 3 (Single substances listed in Annex I) (各别物质详见附录 I)	Several 多个	Usage ban // Sum of all traces group 1, 2 and 3: 100 [µg/kg] 禁用 // 组别 1/2/3 痕量总和: 100 [µg/kg]			
Group 组别 4 (Single substances listed in Annex I) (各别物质详见附录 I)	Several 多个	Usage ban // Sum of all traces group 4: 1.0 [µg/kg] 禁用 // 组别 4 痕量总和:1.0 [µg/kg]			
Group 组别 5 (Single substances listed in Annex I) (各别物质详见附录 I)	Several 多个	Usage ban// Sum of all traces group 4 and 5: 5.0 [µg/kg] 禁用 // 组别 4/5 痕量总和: 5.0 [µg/kg]			

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Flame Retardants 阻燃剂						
Part 1 第一部分						
Chemical Substances 化学物质	CAS Number 化学品文摘号	Limit Value 限值 [mg/kg] Usage range 使用类别			Recommended Sample Preparation // Test Method 推荐样品制备//测试方法	
		A	B	C		
2,2-Bis(bromomethyl)-1,3-propanediol(BBMP) 2,2-双(溴甲基)-1,3-丙二醇 (BBMP)	3296-90-0	Usage ban // DL: 5.0 禁用 // 检出限: 5.0			ISO 17881-1 (2016)	
Bis(2,3-dibromopropyl)phosphate (BDBPP) 双(2,3-二溴丙基)磷酸盐 (BDBPP)	5412-25-9	Usage ban // DL: 5.0 禁用 // 检出限: 5.0			ISO 17881-2 (2016)	
Chlorinated paraffins, all chain lengths 氯化石蜡, 所有链长	Several 多个	Usage ban 禁用			ISO 18219 (2015)	
Paraffin wax, chlorinated 氯化石蜡	63449-39-8	For all materials excluding leather:: DL: 5.0 除皮革外的纺织品: 检出限: 5.0 For leather (for every single substance) Traces : 100 皮革, 每单个物质 痕量: 100				
Paraffin, C10-C13, chlorinated (SCCP) 短链氯化石蜡,C10-C13	85535-84-8					
Paraffin, C14-C17, chlorinated (MCCP) 中链氯化石蜡, C14-C17	85535-85-9					
Paraffin, C18-C28, chlorinated (LCCP) 长链氯化石蜡, C18-C28	85535-86-0					
Hexabromocyclododecan (HBCDD) 六溴环十二烷及其异构体(HBCDD)	25637-99-4 3194-55-6 134237-50-6 134237-51-7 134237-52-8	Usage ban // DL: 5.0 禁用 // 检出限: 5.0			ISO 17881-1 (2016)	
Polybrominated diphenyl ethers (PBDE) 多溴联苯醚	Several 多个	Usage ban // DL: 5.0 for every single substance 禁用 // 检出限: 每单个物质 5.0			ISO 17881-1 (2016)	
Tetrabromodiphenyl ether (TetraBDE) 四溴联苯醚	40088-47-9					
Pentabromodiphenyl ether (PentaBDE) 五溴联苯醚	32534-81-9					
Hexabromodiphenyl ether (HexaBDE) 六溴联苯醚	36483-60-0					
Heptabromodiphenyl ether (HeptaBDE) 七溴联苯醚	68928-80-3					
Octabromodiphenyl ether (OctaBDE) 八溴联苯醚	32536-52-0					
Nonabromodiphenyl ether (NonaBDE) 九溴联苯醚	63936-56-1					
Decabromodiphenyl ether (DecaBDE) 十溴联苯醚	1163-19-5					

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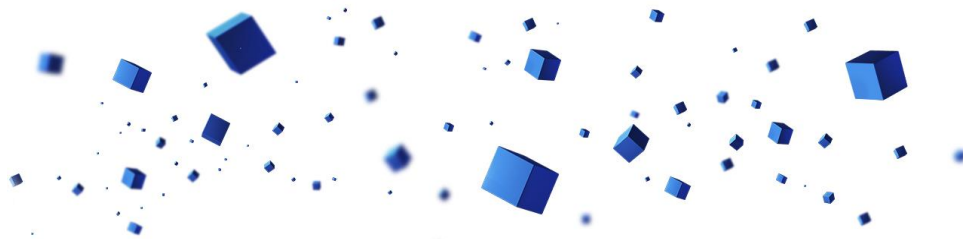
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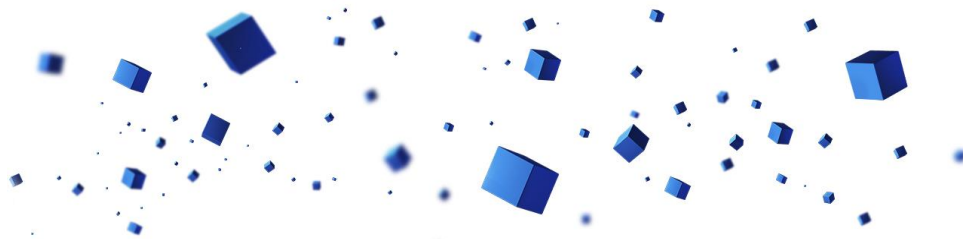
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Tetrabromobisphenol A (TBBP A) 四溴双酚 A	79-94-7	Usage ban // DL: 5.0 禁用 // 检出限: 5.0	ISO 17881-1 (2016)
Tetrabromobisphenol A bis(2,3-dibromopropylether) 四溴双酚 A 双(2,3-二溴丙基醚)	21850-44-2	Usage ban // DL: 5.0 禁用 // 检出限: 5.0	
Tri(aziridin-1-yl)phosphine oxide Triethylenephosphoramidate (TEPA) 三亚乙基磷酰胺	545-55-1	Usage ban // DL: 5.0 禁用 // 检出限: 5.0	ISO 17881-2 (2016)



Flame Retardants 阻燃剂						
Part 2 第二部分						
Chemical Substances 化学物质	CAS Number 化学品文摘号	Limit Value 限值 [mg/kg] Usage range 使用类别			Recommended Sample Preparation // Test Method 推荐样品制备//测试方法	
		A	B	C		
Trimethyl phosphate 磷酸三甲酯	512-56-1	Usage ban // DL: 5.0 禁用 // 检出限: 5.0			ISO 17881-2 (2016)	
Tri-o-cresyl phosphate 磷酸三邻甲苯酯	78-30-8	Usage ban // DL: 5.0 禁用 // 检出限: 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 // 检出限: 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 // 检出限: 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 // 检出限: 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 // 检出限: 5.0				
Trixylyl phosphate (TXP) 三(二甲苯)磷酸酯	25155-23-1	Usage ban // DL: 5.0 禁用 // 检出限: 5.0				



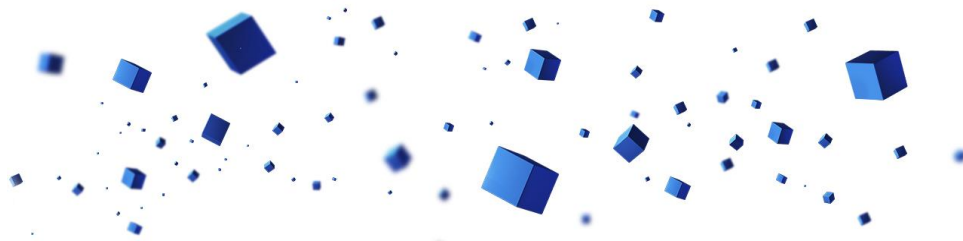
Fluorinated Substances 氟化物						
Part 1 第一部分						
Chemical Substances 化学物质	CAS Number 化学品文摘号	Limit Value 限值 [mg/kg] Usage range 使用类别			Recommended Sample Preparation // Test Method 推荐样品制备//测试方法	
		A	B	C		
PFSA Chemicals* 全氟烷基磺酸盐类*	Several 多个					
Perfluoroalkylsulfonates $F(CF_2)_nSO_3^-$ [n ≥ 5] 全氟烷基磺酸盐	Several 多个		Usage ban 禁用 //	Traces 痕量: 20 [µg/kg]	CEN/TS 15968 (2014)	
Perfluorohexane sulfonic acid / Perfluorohexane sulfonate (PFHxS) 全氟己烷磺酸/全氟己烷磺酸盐	355-46-4 / 432-50-7		Usage ban 禁用 //	Traces 痕量: 20 [µg/kg]		
Perfluorooctane sulfonic acid / Perfluorooctane sulfonate (PFOS) 全氟辛烷磺酸/全氟辛烷磺酸盐	1763-23-1		Usage ban 禁用 //	Traces 痕量: 1.0 [µg/m ²]		
Perfluoroalkylsulfonamides $F(CF_2)_nSO_2NH_2$ [n ≥ 5] 全氟烷基磺酸氨盐	Several 多个		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 ₃ , -CH ₂ CH ₃] 全氟烷基磺酸乙醇胺盐	Several 多个		Usage ban 禁用 //	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 ₃ , -CH ₂ CH ₃] 全氟烷基磺乙酰胺基丙烯酸盐	Several 多个		Usage ban 禁用 //	Traces 痕量: 20 [µg/kg]		
PFBS Chemicals 全氟丁烷磺酸盐类	Several 多个					
Perfluorobutane sulfonic acid / Perfluorobutanesulfonates (PFBS) $F(CF_2)_4SO_3^-$ 全氟丁烷磺酸/全氟丁烷磺酸盐	375-73-5 / 29420-43-3		1.0	Monitoring 监控	CEN/TS 15968 (2014)	
Perfluorobutanesulfonamide $F(CF_2)_4SO_2NH_2$ 全氟丁烷磺胺盐			50	Monitoring 监控		
Perfluorobutanesulfonamidoethanols $F(CF_2)_4SO_2N(R)CH_2CH_2OH_2$ [R = H, -CH ₃ , -CH ₂ CH ₃] 全氟丁烷乙醇磺酰胺盐	Several 多个		15	Monitoring 监控		

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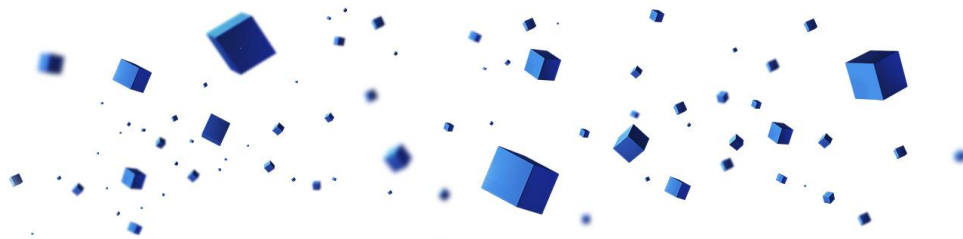
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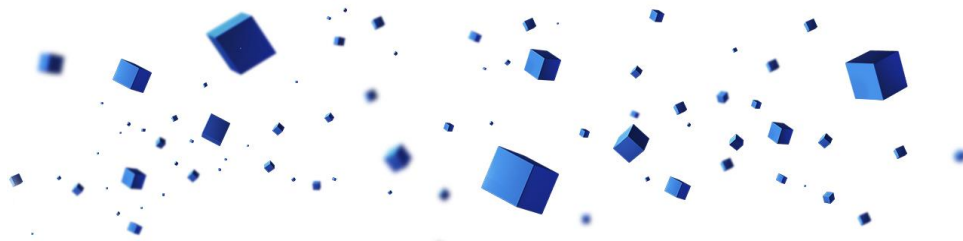
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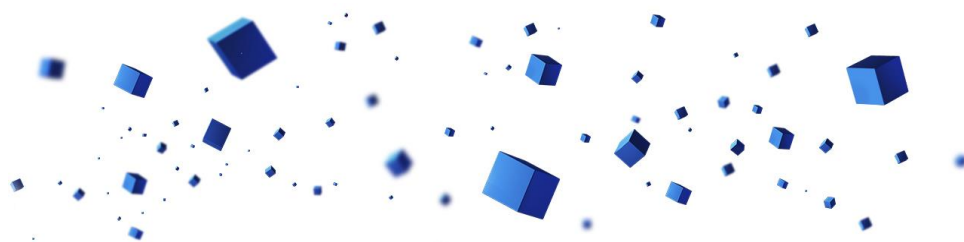
Perfluorobutanesulfonamidoethyl (meth)acrylates $\text{F}(\text{CF}_2)_4\text{SO}_2\text{N}(\text{R})\text{CH}_2\text{CH}_2\text{OC}(\text{O})\text{CH}(\text{R})=\text{CH}_2$ $[\text{R} = \text{H}, -\text{CH}_3, -\text{CH}_2\text{CH}_3]$ 全氟丁烷磺乙酰胺基丙烯酸盐	Several 多个	15	
		Monitoring 监控	
Fluorotelomer alcohols (FTOHs) $\text{F}(\text{CF}_2)_n\text{CH}_2\text{CH}_2\text{OH}$ (not included in the 'PFOA-related substances' group) 全氟烷基醇 (未列入'PFOA-相关物质'的组别)	Several 多个		
6:2 FTOH, Perfluorohexylethanol 1H,1H,2H,2H-全氟辛醇	647-42-7	Monitoring 监控	Extraction with MTBE // GC-MS 甲基叔丁基醚萃取 // GC-MS
Fluorotelomer Olefins (FTOs) (not included in the 'PFOA-related substances' group) 氟调聚物烯烃 (未列入'PFOA-相关物质'的组别)	Several 多个		
Perfluorohexylethene 全氟己基乙烯	25291-17-2	Monitoring 监控	ASE with Ethyl acetate // GC- MS or LC-MS 乙酰乙酯加速萃取 // GC-MS 或 LC-MS



Fluorinated Substances 氟化物						
Part 2 第二部分						
Chemical Substances 化学物质	CAS Number 化学品文摘号	Limit Value 限值 [mg/kg] Usage range 使用类别			Recommended Sample Preparation // Test Method 推荐样品制备//测试方法	
		A	B	C		
Fluorotelomer (Meth)Acrylates (not included in the 'PFOA-related substances' group) 氟调聚物(甲基)丙烯酸酯 (未列入'PFOA-相关物质'的组别)	Several 多个					
Perfluorohexylethyl acrylate or methacrylate 全氟己醇(甲基)丙烯酸酯	Several 多个		Monitoring 监控		Extraction with MTBE // GC-MS 甲基叔丁基醚萃取// GC-MS	
Perfluorocarboxylic acid and salts (PFCA) 全氟羧酸及其盐	Several 多个		Sum of all 0.1 总和不得超过 0.1			
Ammonium pentadecafluorooctanoate (APFO) 全氟辛酸铵	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 全氟癸酸及其钠与铵盐	335-76-2 or Several 多个		Usage ban 禁用// Traces 痕量: 0.05 / Monitoring 监控 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 监控 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 监控 Valid from July 2019 自 2019 年 7 月生效			



Pentacos fluorotridecanoic acid 全氟十三酸	72629-94-8	Usage ban 禁用// Traces 痕量: 0.05 / Monitoring 监控 Valid from July 2019 自 2019 年 7 月生效	
Heptacos fluorotetradecanoic acid 全氟十四酸	376-06-7	Usage ban 禁用// Traces 痕量: 0.05 / Monitoring 监控 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 监控	
Perfluorohexanoic acid (PFHxA) 全氟己酸	307-24-4	Usage ban 禁用 // Traces 痕量: 0.05 Monitoring 监控	
Perfluoroheptanoic acid (PFHpA) 全氟庚酸	375-85-9	Usage ban 禁用// Traces:痕量 0.05 / Monitoring 监控 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 监控	



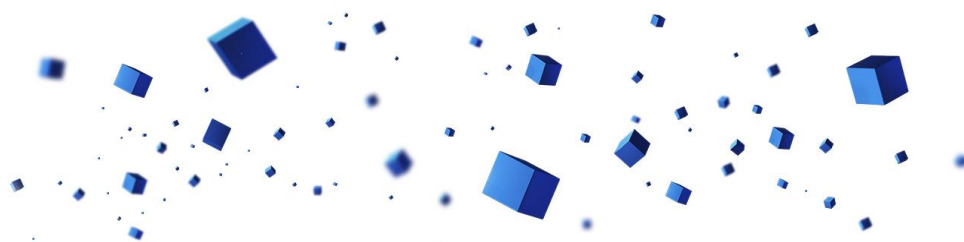
Fluorinated Substances 氟化物					
Part 3 第三部分					
Chemical Substances 化学物质	CAS Number 化学品文摘号	Limit Value 限值 [mg/kg] Usage range 使用类别			Recommended Sample Preparation // Test Method 推荐样品制备//测试方法
		A	B	C	
PFOA-related substances PFOA-相关物质	Several 多个				
Heptadecafluoro-1-iodooctane** 十七氟-1-碘辛烷	507-63-1	Usage ban 禁用 // Traces 痕量: 1000 µg/kg (for the sum of PFOA- related substances PFOA-相关物质的总和)			CEN/TS 15968 (2014)
1H,1H,2H,2H-Perfluorodecyl iodide** 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 乙酸乙酯加速溶剂萃取//GC- MS 或 LC-MS
Perfluorooctylethyl acrylate or methacrylate** 全氟辛醇(甲基)丙烯酸酯**	Several 多个				Extraction with MTBE // GC- MS 甲基叔丁基醚萃取// GC-MS
Perfluoroisobutylene 全氟异丁烯	382-21-8	0.1			Headspace GC-MS 顶空进样 GC-MS
Tetrafluoroethylene 四氟乙烯	116-14-3	1.0			Headspace GC-MS 顶空进样 GC-MS

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

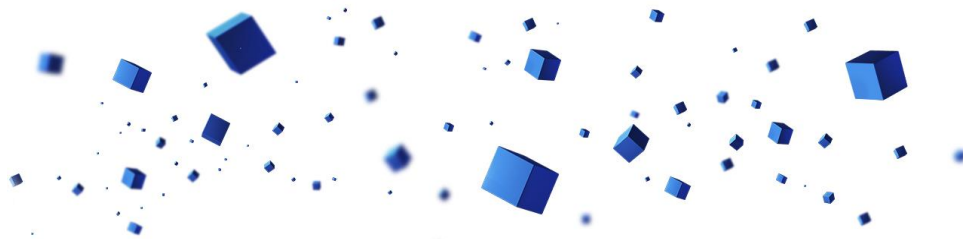
禁止用于 C6 及以上电解氟化产品生产的长链化合物

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

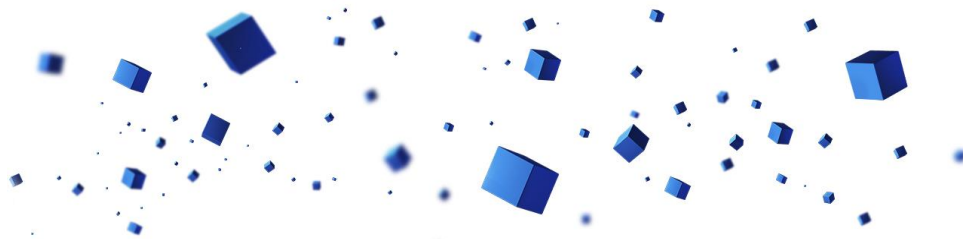
2014 年底需淘汰的用于 C8 及以上调聚物产品生产的长链化合物



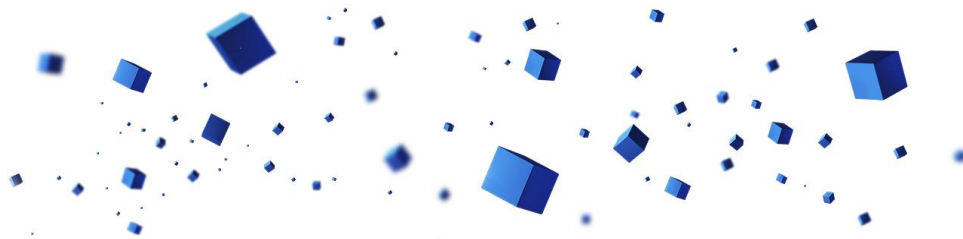
Glycols 乙二醇类					
Chemical Substances 化学物质	CAS Number 化学品文摘号	Limit Value 限值 [mg/kg] Usage range 使用类别			Recommended Sample Preparation // Test Method 推荐样品制备//测试方法
		A	B	C	
Bis(2-methoxyethyl)-ether 双(2-甲氧乙基)-醚	111-96-6	Usage ban // DL: 5.0 禁用 // 检出限: 5.0			Textile 纺织品: Extraction with MeOH // GC-MS 甲醇萃取// GC-MS Plastic 塑料制品: 2-Step extraction with THF and MeOH // GC-MS 四氢呋喃和甲醇两步萃取法// 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 乙二醇单乙醚	110-80-5	Usage ban // DL: 5.0 禁用 // 检出限: 5.0			
2-Ethoxyethyl acetate 乙酸乙氧乙酯	111-15-9	Usage ban // DL: 5.0 禁用 // 检出限: 5.0			
Ethylene glycol dimethyl ether 乙二醇二甲醚	110-71-4	Usage ban // DL: 5.0 禁用 // 检出限: 5.0			
2-Methoxyethanol 2-甲氧基乙醇	109-86-4	Usage ban // DL: 5.0 禁用 // 检出限: 5.0			
2-Methoxyethylacetate 乙酸甲氧乙酯	110-49-6	Usage ban // DL: 5.0 禁用 // 检出限: 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-丙二醇单甲醚	107-98-2	50	200	200	
2-Methoxy-1-propanol 2-丙二醇单甲醚	1589-47-5	Usage ban // DL: 5.0 禁用 // 检出限: 5.0			
2-Methoxypropylacetate 2-丙二醇单甲醚醋酸酯	70657-70-4	Usage ban // DL: 5.0 禁用 // 检出限: 5.0			
Triethylene glycol dimethyl ether 三乙二醇二甲醚	112-49-2	Usage ban // DL: 5.0 禁用 // 检出限: 5.0			



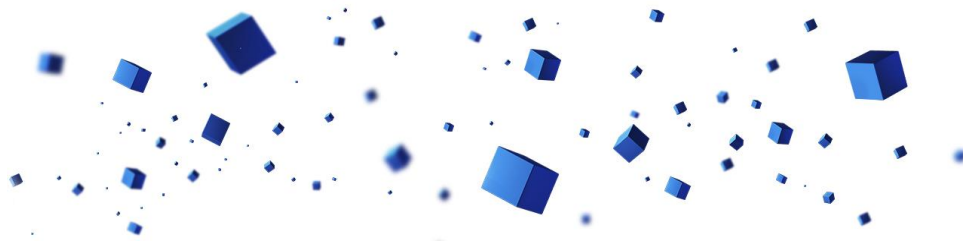
Greenhouse Gases, fluorinated 含氟温室气体						
Chemical Substances 化学物质	CAS Number 化学品文摘号	Limit Value 限值 [mg/kg] Usage range 使用类别			Recommended Sample Preparation // Test Method 推荐样品制备//测试方法	
		A	B	C		
Greenhouse gases, fluorinated (Single substances listed in Annex I) 含氟温室气体 (各别物质详见附录 I)	Several 多个	Usage ban for direct use in manufacturing of articles // DL: 0.1 for every single substance 禁止直接用于生产中 // 检出限: 每单个物质 0.1			Headspace GC-MS 顶空进样 GC-MS	



Halogenated Biphenyls, halogenated Terphenyls and halogenated Naphthalenes 卤代联苯，卤代三联苯和卤代萘						
Chemical Substances 化学物质	CAS Number 化学品文摘号	Limit Value 限值 [mg/kg] Usage range 使用类别			Recommended Sample Preparation // Test Method 推荐样品制备//测试方法	
		A	B	C		
Polybrominated biphenyls (PBBs) 多溴联苯	59536-65-1	Usage ban // DL: 5.0 禁用 // 检出限: 5.0			ISO 17881-1 (2016)	
Hexabromo biphenyl 六溴联苯	36355-01-8	Usage ban // DL: 5.0 禁用 // 检出限: 5.0				
Polychlorinated biphenyls (PCBs) 多氯联苯	1336-36-3	Usage ban // DL: 1.0 禁用 // 检出限:1.0				
Polychlorinated terphenyls (PCTs) 多氯三联苯	61788-33-8	Usage ban // DL: 1.0 禁用 // 检出限:1.0				
Polybrominated terphenyls (PBTs) 多溴三联苯	Several 多个	Usage ban // DL: 1.0 禁用 // 检出限:1.0				
Polychlorinated naphthalenes (PCNs) 多氯化萘	Several 多个					
Monochloronaphthalene 氯化萘	25586-43-0	Usage ban // DL: 1.0 for every single substance 禁用 // 检出限: 每单个物质 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 多个	Usage ban // DL: 1.0 禁用 // 检出限:1.0				



Halogenated Diarylalkanes 卤代双环烷类					
Chemical Substances 化学物质	CAS Number 化学品文摘号	Limit Value 限值 [mg/kg] Usage range 使用类别			Recommended Sample Preparation // Test Method 推荐样品制备//测试方法
		A	B	C	
Halogenated diarylalkanes 卤代双环烷类	Several 多个	Usage ban // DL: 1.0 for every single substance 禁用 // 检出限: 每单个物质 1.0			Extraction following IEC 62321-6 (2015) // GC-MS 按照 IEC 62321-6 (2015)萃取 // GC-MS
Monomethyl-dibromo-diphenyl methane 单甲基-二溴-二苯基甲烷	99688-47-8				
Monomethyl-dichloro-diphenyl methane 单甲基-二氯-二苯基甲烷	81161-70-8				
Monomethyl-tetrachloro-diphenyl methane 单甲基-四氯-二苯基甲烷	76253-60-6				



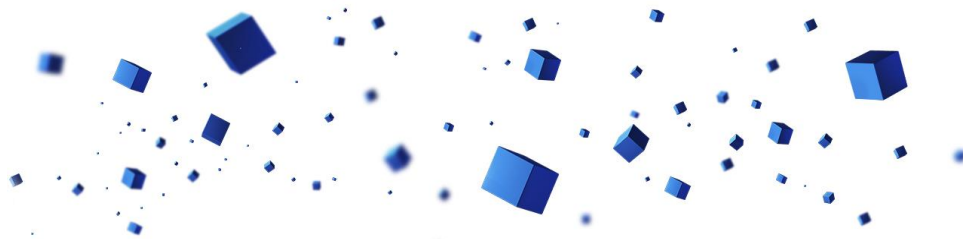
Isocyanates 异氰酸酯						
Chemical Substances 化学物质	CAS Number 化学品文摘号	Limit Value 限值 [mg/kg] Usage range 使用类别			Recommended Sample Preparation // Test Method 推荐样品制备//测试方法	
		A	B	C		
Isocyanates 异氰酸酯	Several 多个	Free content applies to sum of all isocyanates: 所有的异氰酸酯总和:			EN 13130-8 (2004)	
1,3-bis(isocyanatomethyl)benzene (XDI) 间苯二甲基异氰酸酯	3634-83-1					
Diphenylmethane-4,4-di-isocyanate (MDI) 二苯基甲烷-4,4'-二异氰酸酯	101-68-8					
Diphenylmethan-2,2-di-isocyanate (2,2-MDI) 二苯基甲烷-2,2-二异氰酸酯	2536-05-2					
Diphenylmethan-2,4-di-isocyanate (2,4-MDI) 二苯基甲烷-2,4-二异氰酸酯	5873-54-1					
MDI mixed isomers MDI 混合异构体	26447-40-5					
Technical grade MDI 技术级的 MDI	9016-87-9					
Hexamethylene diisocyanate (HMDI) 己二异氰酸酯	822-06-0					
Isophorone diisocyanate (IPDI) 异佛尔酮二异氰酸酯	4098-71-9	1.0	1.0	1.0		
Tetramethylxylene diisocyanate (TMXDI) 四甲基二甲苯二异氰酸酯	2778-42-9	PU coating and plastics: Monitoring PU 涂层和塑胶: 监控				
Toluene-2,4-diisocyanate (2,4-TDI) 甲苯-2,4-二异氰酸酯	584-84-9					
Toluene-2,6-diisocyanate (2,6-TDI) 甲苯-2,6-二异氰酸酯	91-08-7					
2,4-/2,6-TDI mixture 2,4-/2,6-TDI 混合物	26471-62-5					
2,6-Diisopropylphenyl-isocyanate 2,6-二异丙苯基-异氰酸酯	28178-42-9					
4,4-Methylendicyclohexyl-di-isocyanate (4,4-MDI) 二环己基甲烷-4,4'-二异氰酸酯	5124-30-1					
Napthylene-1,5-di-isocyanate (1,5-NDI) 萘基-1,5-二异氰酸酯	3173-72-6					
Phenylisocyanate 苯基异氰酸酯	103-71-9					

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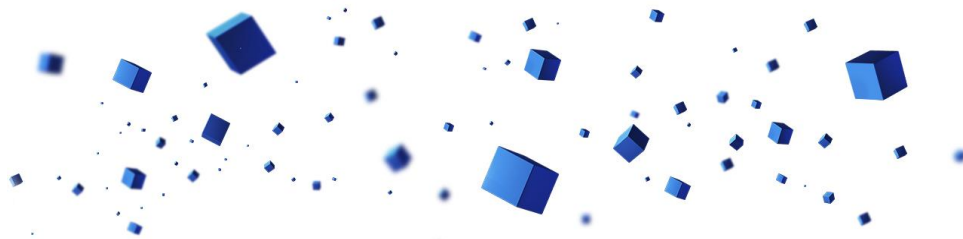
Metals 金属					
Part 1 第一部分					
Chemical Substances 化学物质	CAS Number 化学品文摘号	Limit Value 限值 [mg/kg] Usage range 使用类别			Recommended Sample Preparation // Test Method 推荐样品制备//测试方法
		A	B	C	
Antimony 锑	7440-36-0	Usage as flame retardant: bluesign® criteria for flame retardants have to be followed 阻燃剂:见 bluesign® criteria 阻燃剂 准则			
		In other cases 如下情况时:			Textiles 纺织品: DIN EN 16711-1 (2016) (total content 总含量)
		Polyester raw fiber 聚酯原纤 Total content 总含量: 260			
		For textiles and leather 纺织品/皮革: Extractable content 可萃取含量:			Textiles 纺织品: 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 金属/非金属(纺织品/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 总含量: 10			Textiles and others 纺织品和其他: DIN EN 16711-1 (2016) (total content 总含量) 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 总含量)

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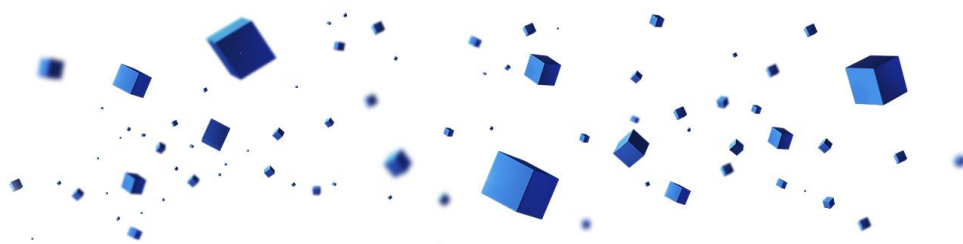
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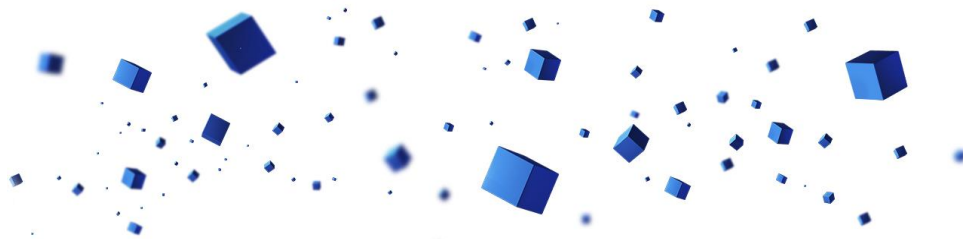
Barium 钡	7440-39-3	For textiles 纺织品: Total content 总含量: 100	DIN EN 16711-1 (2016) (total content 总含量)
		For metal parts and non-metal parts others than textiles 除纺织品外的金 属/非金属部分: Extractable content 可萃取含量: 1000	EN 71-3 (2013) (acid solution simulating gastric juices 仿胃液 酸性溶液) // ISO 17294-2 (2016) or DIN EN ISO 11885 (2009)



Metals 金属						
Part 2 第二部分						
Chemical Substances 化学物质	CAS Number 化学品文摘号	Limit Value 限值 [mg/kg] Usage range 使用类别			Recommended Sample Preparation // Test Method 推荐样品制备//测试方法	
		A	B	C		
Cadmium 镉	7440-43-9	Usage ban 禁用				
		For non-metal parts (textiles, leather and others): 非金属部分(纺织/皮革/其他): Traces 痕量 Extractable content 可萃取含量: 0.1 Traces 痕量 Total content 总含量: 40			Textiles and others 纺织品及其他: 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 纺织品及其他: DIN EN 16711-1 (2016) (total content 总含量) Leather 皮革: ISO 17072-2 (2011) (total content 总含量)	
		For metal parts 金属部分: Traces 痕量 Total content 总含量: 40			DIN EN 16711-1 (2016) (total content 总含量)	
Chromium 铬	7440-47-3	For textiles 纺织品 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 络合染料染色的纺织品 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>金属/非金属部分(纺织品/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>如产品使用含铬在内的金属层,则涂层必须在良好条件下完成</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>
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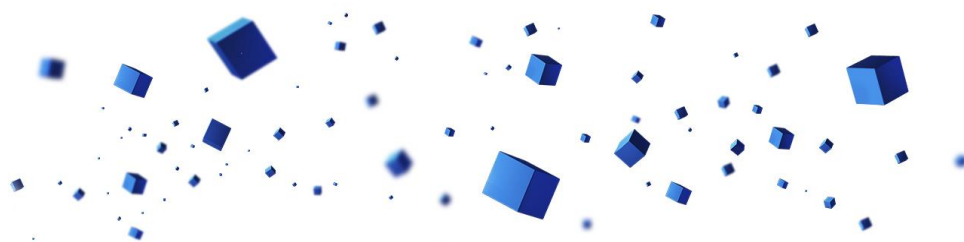
Metals 金属					
Part 3 第三部分					
Chemical Substances 化学物质	CAS Number 化学品文摘号	Limit Value 限值 [mg/kg] Usage range 使用类别			Recommended Sample Preparation // Test Method 推荐样品制备//测试方法
		A	B	C	
Chromium (VI) 铬(VI)	18540-29-9	Usage ban 禁用			
		For metal parts and non-metal parts others than leather: 除皮革外金属/非金属部分 Extractable content 可萃取含量: DL 检出限: 0.5			EN ISO 17075-1 or -2 (2017)
		For leather 皮革 Extractable content 可萃取含量: DL 检出限: 3.0			DIN EN ISO 4044 (2017) // EN ISO 17075-1 (2017-) or EN ISO 17075-2 (2017-05)
Cobalt 钴	7440-48-4	For textiles and leather 纺织品/皮革: Extractable content 可萃取含量: 1.0			Textiles and others 纺织品及 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: 钴络合染料染色的纺织品和皮革 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 金属/非金属部分(纺织品/皮革外) Extractable content 可萃取含量:			
		1.0	4.0	4.0	
Copper 铜	7440-50-8	For textiles and leather (including Cu metal complex dyed materials) 纺织品/皮革(包含铜络合染料染色的纺 织品): Extractable content 可萃取含量:			Textiles and others 纺织品及 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: 金属/非金属部分(纺织品/皮革外):			-
		No regulation 不限			

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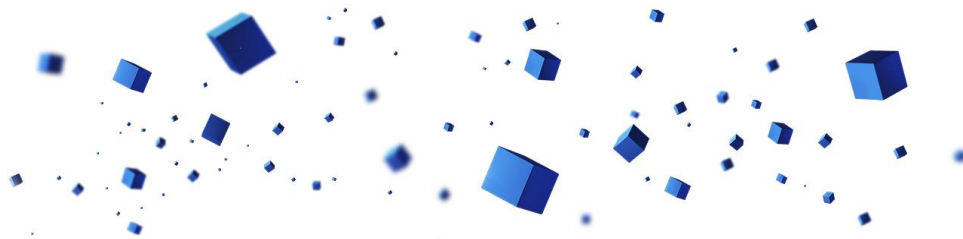
Metals 金属						
Part 4 第四部分						
Chemical Substances 化学物质	CAS Number 化学品文摘号	Limit Value 限值 [mg/kg] Usage range 使用类别			Recommended Sample Preparation // Test Method 推荐样品制备//测试方法	
		A	B	C		
Lead 铅	7439-92-1	Usage ban 禁用				
		For textiles, plastics and leather 纺织品/塑胶/皮革 Traces 痕量 Extractable content 可萃取含量:			Textiles and others 纺织品及其他: 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 总含量: 40			Textiles and others 纺织品及其他: DIN EN 16711-1 (2016) (total content 总含量) Leather 皮革: ISO 17072-2	
		For metal parts 金属部分 Traces 痕量 Total content 总含量: 90			DIN EN 16711-1 (2016) (total content 总含量)	
Mercury 汞	7439-97-6	Usage ban 禁用				
		For non-metal parts (textiles, leather and others): 非金属部分(纺织品/皮革/其他): Extractable content 可萃取含量: 0.02			Textiles 纺织品: 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 金属部分: 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 镍	7440-02-0	For textiles and leather 纺织品/皮革 Extractable content 可萃取含量: 1.0			Textiles 纺织品: 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: 含镍金属络合染料染色的纺织品和 皮革:				
		1.0	4.0	4.0		

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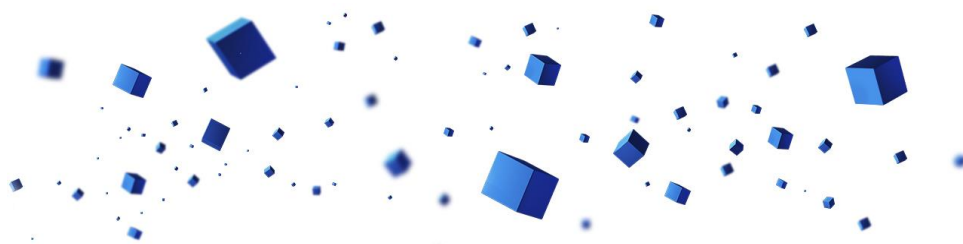
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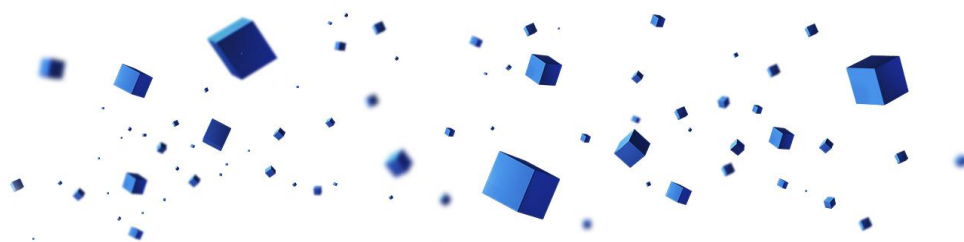
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		<p>For metal parts and non-metal parts others than textiles and leather:</p> <p>除纺织品/皮革外金属/非金属部分:</p> <p>Usage ban for A and B:</p> <p>A 类和 B 类禁用:</p> <p>0.5 [$\mu\text{g}/\text{cm}^2/\text{week}$]</p>	<p>Release</p> <p>EN 12472 (2005)+A1(2009) //</p> <p>EN 1811 (2011)+A1(2015)</p>
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Metals 金属					
Part 5 第五部分					
Chemical Substances 化学物质	CAS Number 化学品文摘号	Limit Value 限值 [mg/kg] Usage range 使用类别			Recommended Sample Preparation // Test Method 推荐样品制备//测试方法
		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 银	7440-22-4	For textiles and leather: 纺织品/皮革: If used as antimicrobial active compound relevant bluesign® criteria have to be followed 用作抗菌剂时必须遵守 bluesign® criteria 抗菌化学品准则			-
		For metal parts and non-metal parts other than textiles and leather: 除纺织品/皮革外的金属/ 非金属部分: No regulation 不限			-



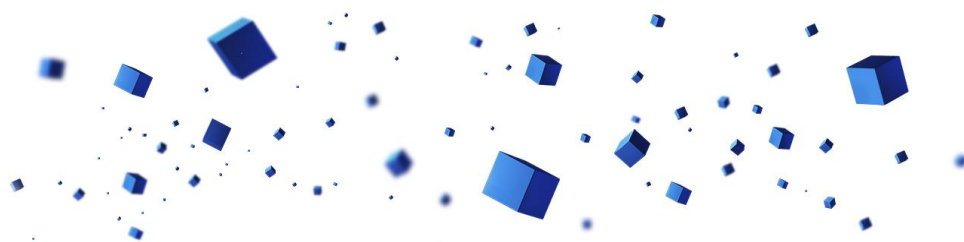
Monomers 单体					
Part 1 第一部分					
Chemical Substances 化学物质	CAS Number 化学品文摘号	Limit Value 限值 [mg/kg] Usage range 使用类别			Recommended Sample Preparation // Test Method 推荐样品制备//测试方法
		A	B	C	
Acrylamide 丙烯酰胺	79-06-1	Usage ban 禁用 // DL 检出限: 1.0 Monitoring 监控			Textile 纺织品: Extraction with MeOH // HPLC 甲醇萃取 // HPLC Plastic 塑料制品: 2-Step extraction with THF and MeOH // LC-MS 四氢呋喃和甲醇两步萃取法// LC-MS
Acrylates 丙烯酸酯类	Several 多个				Headspace GC-MS (for acrylates) 顶空进样 GC-MS (丙烯酸酯类) Extraction with MeOH // HPLC (for acids) 甲醇萃取// HPLC (丙烯酸类)
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// 检出限: 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// 检出限: 1.0 Monitoring 监控			BVL B 80.68-1

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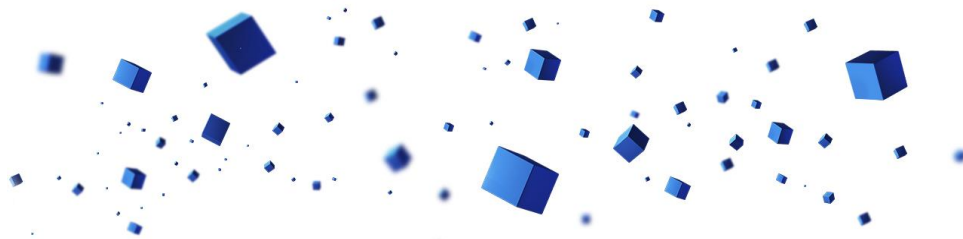
Monomers 单体					
Part 2 第二部分					
Chemical Substances 化学物质	CAS Number 化学品文摘号	Limit Value 限值 [mg/kg] Usage range 使用类别			Recommended Sample Preparation // Test Method 推荐样品制备//测试方法
		A	B	C	
4-Cyanocyclohexene 4-氰基-1-环己烷	100-45-8	50	50	50	Headspace GC-MS 顶空进样 GC-MS
Epichlorohydrin 表氯醇	106-89-8	Usage ban // DL: 1.0 禁用 // 检出限: 1.0			CEN/TS 13130-20 (2005)
Methacrylamide 甲基丙烯酰胺	79-39-0	1.0	10	50	Textile 纺织品: 2-Step extraction with Acetone/Hexane and MeOH // GC-MS or LC-MS 丙酮/己烷和甲醇两步萃取法// GC-MS 或 LC-MS Plastics 塑制品: 3-Step extraction with THF, Acetone/Hexane (ASE or Soxhlet) and MeOH // GC-MS or LC-MS 四氢呋喃, 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 羟甲基丙烯酰胺	924-42-5	1.0	10	10	Textile 纺织品: 2-Step extraction with Acetone/Hexane and MeOH // GC-MS or LC-MS 丙酮/己烷和甲醇两步萃取法// GC-MS or LC-MS Plastics 塑制品: 3-Step extraction with THF, Acetone/Hexane (ASE or Soxhlet) and MeOH // GC-MS or LC-MS 四氢呋喃, 丙酮/己烷(加速法或 索氏法)和甲醇三步萃取法// GC-MS 或 LC-MS

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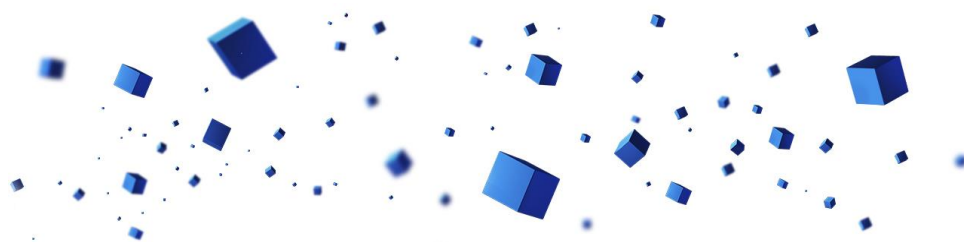
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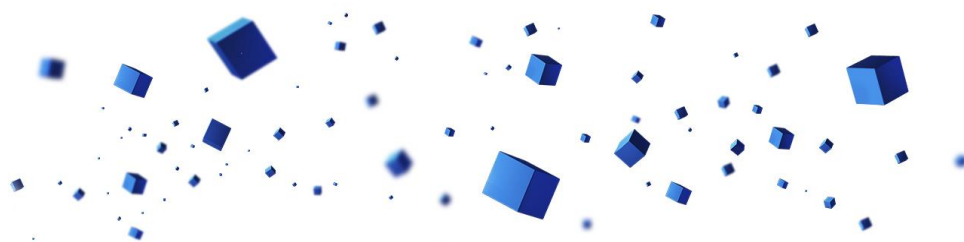
N-Vinyl-2-pyrrolidone N-乙烯基-2-吡咯烷酮	88-12-0	1.0	1.0	1.0	Extraction with MeOH // GC-MS or Headspace GC-MS 甲醇萃取// GC-MS 或顶空进样 GC-MS
Styrene 苯乙烯	100-42-5	10	10	100	Headspace GC-MS 顶空进样 GC-MS
Vinyl acetate 醋酸乙烯酯	108-05-4	10	50	50	Headspace GC-MS 顶空进样 GC-MS
Vinyl chloride 氯乙烯	75-01-4	Usage ban // DL: 0.1 禁用 // 检出限: 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) 顶空进样 GC-ECD, FID



Nitrosamines 亚硝胺类					
(as substance and as reaction product from secondary amines for example in elastomers or rubbers)					
例如在弹性体或橡胶中来自仲胺的化学物质或反应产物					
Chemical Substances 化学物质	CAS Number 化学品文摘号	Limit Value 限值 [mg/kg] Usage range 使用类别			Recommended Sample Preparation // Test Method 推荐样品制备//测试方法
		A	B	C	
Nitrosamines 亚硝胺类	Several 多个	Usage ban // DL: 0.5 for every single listed substance 禁用// 检出限: 0.5 每单个物质			GB/T 24513 (2009) 或 prEN 19577 (2017)
N-Nitroso-di-n-butylamine N-亚硝基二正丁胺	924-16-3				
N-Nitroso-di-ethanolamine N-亚硝基二乙醇胺	1116-54-7				
N-Nitroso-di-ethylamine N-亚硝基二乙胺	55-18-5				
N-Nitroso-di-isopropylamine N-亚硝基-二异丙胺	601-77-4				
N-Nitroso-di-methylamine N-亚硝基-二甲胺	62-75-9				
N-Nitroso-di-benzylamine N-亚硝基-二-苯甲胺	5336-53-8				
N-Nitroso-di-isobutylamine N-亚硝基-二-异丁胺	997-95-5				
N-Nitroso-di-isononylamine N-亚硝基-二-异壬基胺	1207995-62-7				
N-Nitroso-di-n-propylamine N-亚硝基-二正丙胺	621-64-7				
N-Nitroso-ethylphenylamine N-亚硝基-乙基苯胺	612-64-6				
N-Nitroso-methylphenylamine N-亚硝基-甲基苯胺	614-00-6				
N-Nitroso-morpholine N-亚硝基-吗啉	59-89-2				
N-Nitroso-piperidine N-亚硝基-哌啶	100-75-4				
N-Nitroso-pyrrolidine N-亚硝基-吡咯烷	930-55-2				



Other Chemical Substances 其他化学物质					
Part 1 第一部分					
Chemical Substances 化学物质	CAS Number 化学品文摘号	Limit Value 限值 [mg/kg] Usage range 使用类别			Recommended Sample Preparation // Test Method 推荐样品制备//测试方法
		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 监控			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 多个	Usage ban // DL: 1.0 禁用//检出限: 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 去离子水萃取//IC
Azobenzene 偶氮苯	103-33-3	Usage ban // DL: 1.0 禁用//检出限: 1.0 Monitoring 监控			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//检出限: 1.0			Extraction with DCM or Headspace GC-MS 二氯甲烷萃取或顶空进样 GC-MS
Biphenyl 联苯	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 双酚 A	80-05-7	Usage ban for textile and leather // DL: 1.0 禁止用于纺织品和皮革// 检出限: 1.0 Others: 50 其他: 50			Extraction with MeOH // ISO 18857- 2 (2009) 甲醇萃取// ISO 18857-2 (2009)



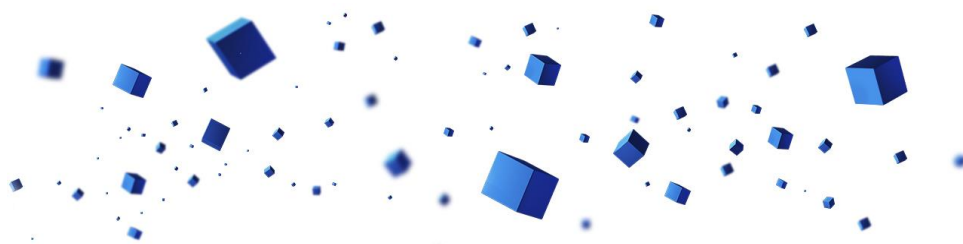
Other Chemical Substances 其他化学物质					
Part 2 第二部分					
Chemical Substances 化学物质	CAS Number 化学品文摘号	Limit Value 限值 [mg/kg] Usage range 使用类别			Recommended Sample Preparation // Test Method 推荐样品制备//测试方法
		A	B	C	
Boric acid and derivatives 硼酸及其衍生物	Several 多个	Usage ban 禁用 100 for every single substance 每个物质 100			Indirect testing via Boron (DL for Boron: 10 mg/kg) // ICP-OES or ICP-MS 间接法(硼的检出限: 10 mg/kg) // ICP-OES 或 ICP-MS
Borate, zinc salt 硼酸锌	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 四硼酸二钠	1303-96-4 (decahydrate) 十水 1330-43-4 (anhydrous) 无水 12179-04-3 (pentahydrate) 五水				
Disodium octaborate anhydrous 无水八硼酸二钠	12008-41-2 12280-03-4				
Orthoboric acid sodium salt 原硼酸钠盐	13840-56-7				
Perboric acid, sodium salt 过硼酸钠盐	11138-47-9 10332-33-9 12040-72-1 37244-98-7				
Sodium perborate 过硼酸钠	15120-21-5				
Sodium perborate, anhydrous 无水过硼酸钠	7632-04-4				
Tetraboron disodium heptaoxide, hydrate 水合七氧四硼酸二钠	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

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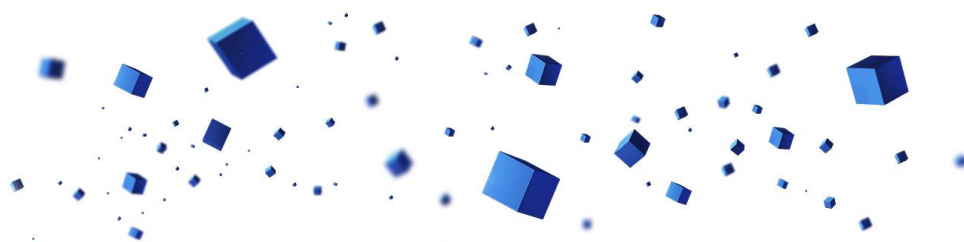
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4-tert-Butyltoluene 4-叔丁基甲苯	98-51-1	Usage ban // DL: 1.0 禁用//检出限：1.0			Extraction with MeOH // GC-MS 甲醇萃取//GC-MS
2-Butyne-1,4-diol 丁炔二醇	110-65-6	1.0			Extraction with MeOH // GC-MS
		Monitoring 监控			甲醇萃取//GC-MS
ε-Caprolactam 己内酰胺	105-60-2	100	1000	1000	Extraction with MeOH // LC-MS 甲醇萃取//LC-MS
		Not in force for PA6 containing polymers (fibers, hot melt etc.) 对尼龙 6 (纤维，热熔胶等)不作强制要求			



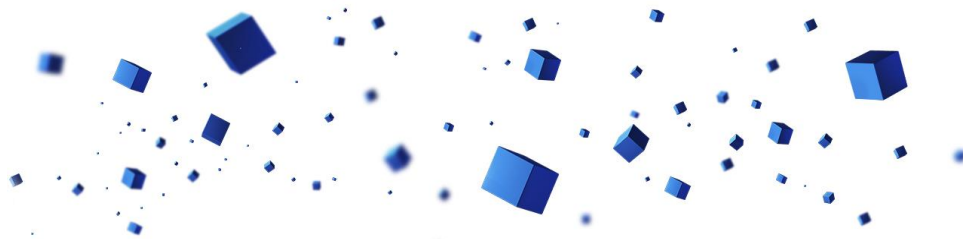
Other Chemical Substances 其他化学物质					
Part 3 第三部分					
Chemical Substances 化学物质	CAS Number 化学品文摘号	Limit Value 限值 [mg/kg] Usage range 使用类别			Recommended Sample Preparation // Test Method 推荐样品制备//测试方法
		A	B	C	
2-Chloroethanol 2-氯乙醇	107-07-3	1.0	10	50	Extraction with MeOH or Headspace GC-MS 甲醇萃取//LC-MS 或 顶空进样 GC-MS
Colophony (Rosin) 松香	8050-09-7	Usage ban // DL: 1.0 禁用// 检出限: 1.0 (abietic acid or hydroabietic acid) (松香酸或 氢化松香酸)			Extraction with MTBE, derivatisation // GC-MS 甲基叔丁基醚萃取, 衍生法 // GC-MS
Cresol, all isomers 甲酚及其异构体	1319-77-3	Usage ban // DL: 10 for every single listed substance 禁用 // 检出限: 每单个物质 10			Extraction with KOH 氢氧化钾 萃取// § 64 LFGB B 82.02-8 (2001) or DIN EN ISO 17070 (2015)
m-Cresol 间甲酚	108-39-4				
o-Cresol 邻甲酚	95-48-7				
p-Cresol 对甲酚	106-44-5				
Cyclohexanol 环己醇	108-93-0	10			Headspace GC-MS 顶空进样 GC-MS
Cyclohexanone 环己酮	108-94-1	10			Headspace GC-MS 顶空进样 GC-MS
D4-Siloxane (Octamethylcyclotetrasiloxane) 八甲基环六硅氧烷	556-67-2	Usage ban // DL: 10 禁用//检出限: 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//检出限:10 Monitoring 监控			
D6-Siloxane (Dodecamethylcyclohexasiloxane) 十二甲基环六硅氧烷	540-97-6	Usage ban // DL: 10 禁用//检出限 : 10 Monitoring 监控			
1,3-Dichloro-2-propanol 1,3-二氯-2-丙醇	96-23-1	Usage ban // DL: 1.0 禁用//检出限: 1.0			Headspace GC-MS 顶空进样 GC-MS
Dimethylfumarate 二甲基富马酸	624-49-7	Usage ban // DL: 0.1 禁用//检出限: 0.1			ISO/TS 16186 (2012) // GC-MS

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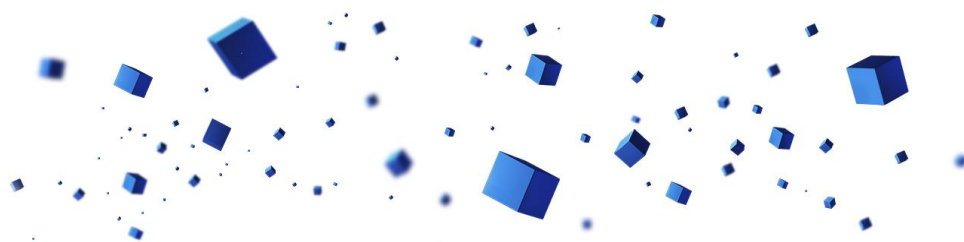
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3,5-Dimethylpyrazole 3,5 二甲基吡唑	67-51-6	Monitoring 监控			Extraction with MeOH // GC-MS 甲醇萃取//GC-MS
Dimethyl sulfate 硫酸二甲酯	77-78-1	Usage ban // DL: 1.0 禁用//检出限: 1.0			Headspace GC-MS 顶空进样 GC-MS
2,4-Dinitrotoluene 2,4-二硝基甲苯	121-14-2	Usage ban // DL: 10 禁用//检出限: 10			Extraction with Toluene // GC-MS 甲苯萃取//LC-MS
1,4-Dioxane 1,4-二氧己环	123-91-1	1.0	5	10	Headspace GC-MS 顶空进样 GC-MS
		Monitoring 监控			
Ethylbenzene 乙苯	100-41-4	500	500	1000	Headspace GC-MS 顶空进样 GC-MS
Ethyleneimine 乙亚胺	151-56-4	Usage ban // DL: 1.0 禁用//检出限: 1.0			Headspace GC-MS 顶空进样 GC-MS
2-Ethylhexanol 2-乙基己醇	104-76-7	50	200	500	Headspace GC-MS 顶空进样 GC-MS



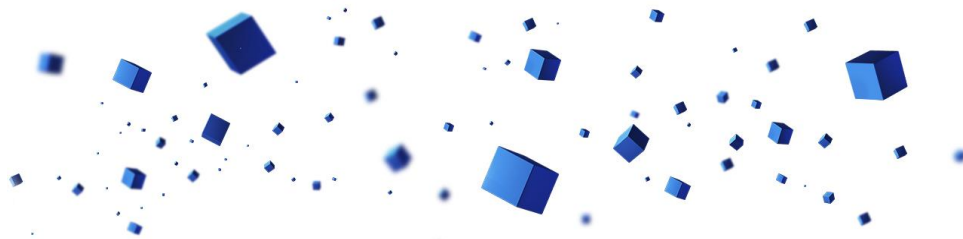
Other Chemical Substances 其他化学物质						
Part 4 第四部分						
Chemical Substances 化学物质	CAS Number 化学品文摘号	Limit Value 限值 [mg/kg] Usage range 使用类别			Recommended Sample Preparation // Test Method 推荐样品制备//测试方法	
		A	B	C		
Formaldehyde oligomeric reaction product with aniline (polymeric MDA, MDA technical grade) 甲醛和苯胺的低聚反应产物	25214-70-4	Usage ban // DL: 20 禁用//检出限: 20			Indirect testing via Diaminodiphenylmethane // LC-MS 二氨基二苯甲烷间接法//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 *测试样制备: 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	
Hydrazine, its salts and hydrates 联胺, 及其盐和水合物	Several 多个	Usage ban 禁用				
Hydrazine 联胺	302-01-2	Traces: 1.0 痕量: 1.0			Extraction with THF/Acetone // GC-MS 四氢呋喃/丙酮萃取// GC-MS	
Hydrofluoric acid 氢氟酸	7664-39-3	1.0			Extraction with water and measurement of fluorine or fluoride // GC-MS or IC 水萃取并测定氟或氟化物含量 // GC-MS 或 IC	
4-Hydroxy-4-methylpentane-2-one 二丙酮醇	123-42-2	20	100	100	Headspace GC-MS 顶空进样 GC-MS	
Isoquinoline 异喹啉	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 甲醇或四氢呋喃萃取// LC-MS/MS 或 LC-DAD	
Mercaptobenzothiazole and salts 巯基苯并噻唑及盐	149-30-4	Usage ban for A in natural and synthetic rubber (DL: 5.0); B and C: 200 禁用在 A 类的天然和合成橡胶 (检出限:5.0) B 和 C 类 : 200			DIN EN ISO 105-E04 (2013) (acidic sweat solution 酸性汗液) // LC-MS	

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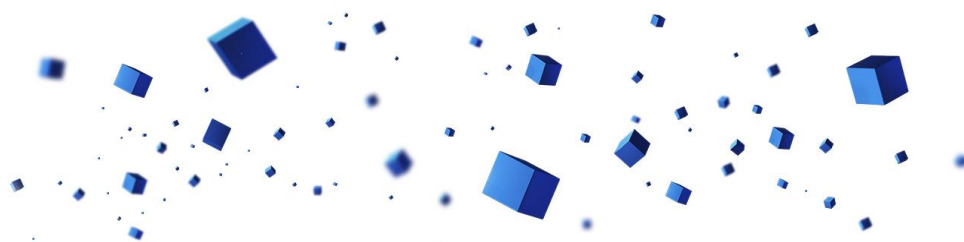
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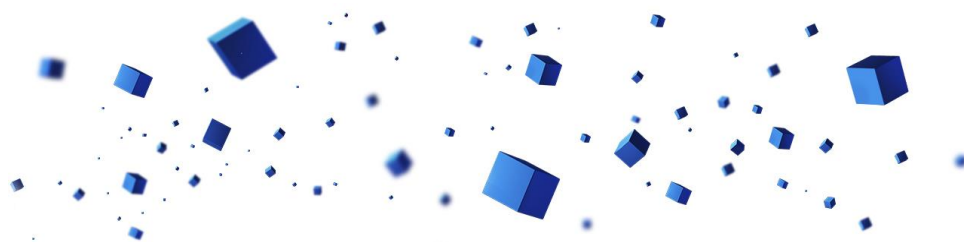
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Methanol 甲醇	67-56-1	10			Headspace GC-MS 顶空进样 GC-MS
2-Methylaziridine (Propylenimine) 2-甲基氮丙啶	75-55-8	Usage ban // DL: 1.0 禁用// 检出限：1.0			Headspace GC-MS 顶空进样 GC-MS
Methyl chloride 氯甲烷	74-87-3	1.0	1.0	1.0	Headspace GC-MS 顶空进样 GC-MS
N-Cyclohexyl-2-pyrrolidone N-环己基-2 吡咯烷酮	6837-24-7	20	200	200	Extraction with MeOH // GC-MS 甲醇萃取//GC-MS
1-Nitropropane/2-Nitropropane 1-硝基丙烷/2-硝基丙烷	Several 多个				Headspace GC-MS 顶空进样 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//检出限：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-苯基环乙烯	4994-16-5	10	10	50	Extraction with MeOH or Headspace GC-MS 甲醇萃取或顶空进样 GC-MS

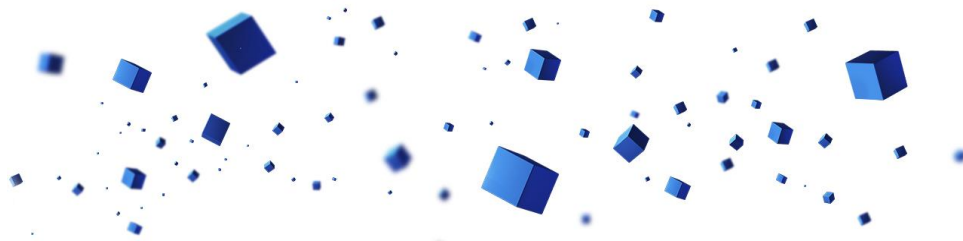


Other Chemical Substances 其他化学物质					
Part 5 第五部分					
Chemical Substances 化学物质	CAS Number 化学品文摘号	Limit Value 限值 [mg/kg] Usage range 使用类别			Recommended Sample Preparation // Test Method 推荐样品制备//测试方法
		A	B	C	
2-Phenyl-2-propanol 2-苯基异丙醇	617-94-7	1.0	10	10	Extraction with MeOH // GC-MS 甲醇萃取//GC-MS
Potassium bromate 溴酸钾	7758-01-2	Usage ban // DL: 10 禁用 // 检出限: 10			Extraction with Potassium carbonate solution // IC 碳酸钾萃取 // 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 甲醇或四氢呋喃萃取 // LC-MS/MS 或 LC-DAD
Sodium bromate 溴酸钠	7789-38-0	Usage ban // DL: 10 禁用 // 检出限: 10			Extraction with Potassium carbonate solution // IC 碳酸钾萃取 // IC
Terpene hydrocarbons 萜烯		Usage ban // DL: 1.0 for every single listed substance 禁用 // 检出限: 每个物质 1.0			Headspace GC-MS 顶空进样 GC-MS
D-Limonene 右旋柠檬烯	5989-27-5				
DL-Limonene 消旋柠檬烯	138-86-3				
L-Limonene 左旋柠檬烯	5989-54-8				
Thiourea 硫脲	62-56-6	Usage ban // DL: 5.0 禁用 // 检出限: 5.0			Extraction with MeOH // LC-MS 甲醇萃取//LC-MS
Tri-iso-butylphosphate 磷酸三异丁酯	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-乙烯基环己烯	100-40-3	1.0			Headspace GC-MS 顶空进样 GC-MS



Ozone Depleting Substances 臭氧消耗物质					
Chemical Substances 化学物质	CAS Number 化学品文摘号	Limit Value 限值 [mg/kg] Usage range 使用类别			Recommended Sample Preparation // Test Method 推荐样品制备//测试方法
		A	B	C	
Ozone depleting substances (CFCs) class I (Single substances listed in Annex I) 臭氧消耗物质类别 I (各别物质详见附录 I)	Several 多个	Usage ban for direct use in manufacturing of articles // DL: 0.1 for every single substance 禁止直接使用于生产// 检出限: 每单个物质 0.1			Headspace GC-MS 顶空进样 GC-MS
Ozone depleting substances (CFCs) class II (Single substances listed in Annex I) 臭氧消耗物质类 II (各别物质详见附录 I)	Several 多个				

Pesticides 杀虫剂					
Chemical Substances 化学物质	CAS Number 化学品文摘号	Limit Value 限值 [mg/kg] Usage range 使用类别			Recommended Sample Preparation // Test Method 推荐样品制备//测试方法
		A	B	C	
Pesticides (Single substances listed in Annex I) 杀虫剂 (各别物质详见附录 I)	Several 多个	Usage ban // 0.5 mg/kg limit value applies to total sum of all pesticides 禁用 // 各杀虫剂总和 不得超过 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



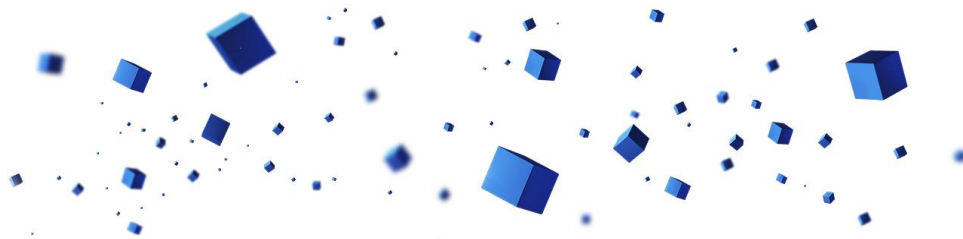
Plasticizers 塑化剂				
Part 1 第一部分				
Chemical Substances 化学物质	CAS Number 化学品文摘号	Limit Value 限值 [mg/kg] Usage range 使用类别		
		A	B	C
Di-(2-ethylhexyl) adipate (DEHA) 己二酸二(2-乙基己)酯	103-23-1	Monitoring 监控		
Phthalic acid esters 邻苯二甲酸酯	Several 多个	Usage ban // Traces: 50 for every single substance 禁用 // 痕量: 每个物质 50		
1,2-Benzenedicarboxylic acid, di-C ₆₋₈ - branched alkyl esters, C ₇ -rich (DIHP) 邻苯二甲酸二异庚酯	71888-89-6			
1,2-Benzenedicarboxylic acid, benzyl C ₇₋₉ - branched and linear alkyl esters 邻苯二甲酸苄(C ₇₋₉ 支链与直链)烷基酯	68515-40-2			
1,2-Benzenedicarboxylic acid, di-C ₇₋₁₁ - branched and linear alkyl esters (DHNUP) 邻苯二甲酸二(C ₇₋₁₁ 支链与直链)烷基酯	68515-42-4			
1,2-Benzenedicarboxylic acid, dipentyl ester, branched and linear 邻苯二甲酸戊基异戊酯, 支链与直链	84777-06-0			
1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear 邻苯二甲酸戊基异己酯, 支链与直链	68515-50-4			
1,2-Benzenedicarboxylic acid, di-C ₆₋₁₀ -alkyl esters 邻苯二甲酸二(C ₆₋₁₀)烷基酯	68515-51-5			
1,2-Benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters 邻苯二甲酸混(癸基, 己基, 辛基)酯	68648-93-1			
Bis-(2-methoxyethyl) phthalate (DMEP) 邻苯二甲酸二甲氧乙酯	117-82-8			
Butylbenzyl phthalate (BBP) 邻苯二甲酸丁苄酯	85-68-7			
Dimethyl phthalate (DMP) 邻苯二甲酸二甲酯	131-11-3			
Diethyl phthalate (DEP) 邻苯二甲酸二乙酯	84-66-2			
Dibutyl phthalate (DBP) 邻苯二甲酸二丁酯	84-74-2			
		ISO 14389 (2014)		

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Dinonyl phthalate (DNP) 邻苯二甲酸二壬酯	84-76-4		
Diethylhexyl phthalate (DEHP) 邻苯二甲酸二辛酯	117-81-7		
Diisobutyl phthalate (DIBP) 邻苯二甲酸二异丁酯	84-69-5		
Diisopentyl phthalate (DIPP) 邻苯二甲酸二异戊酯	605-50-5		
Diisohexyl phthalate (DIHxP) 邻苯二甲酸二异己酯	71850-09-4		
Diisooctyl phthalate (DIOP) 邻苯二甲酸二异辛酯	27554-26-3		
Diisononyl phthalate (DINP) 邻苯二甲酸二异壬酯	28553-12-0 68515-48-0		
Diisodecyl phthalate (DIDP) 邻苯二甲酸二异癸酯	26761-40-0 68515-49-1		

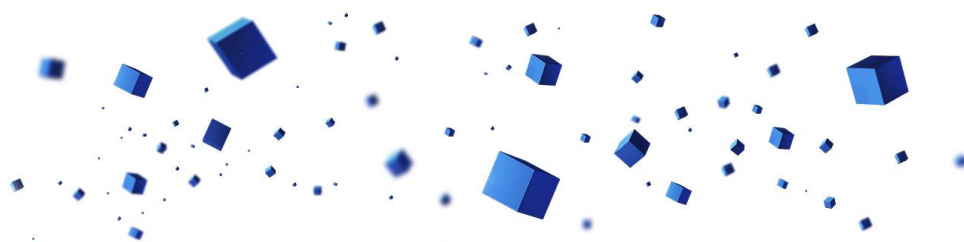
Plasticizers 塑化剂					
Part 2 第二部分					
Chemical Substances 化学物质	CAS Number 化学品文摘号	Limit Value 限值 [mg/kg] Usage range 使用类别			Recommended Sample Preparation // Test Method 推荐样品制备//测试方法
		A	B	C	
Di-n-propyl phthalate (DPRP) 邻苯二甲酸二丙酯	131-16-8	Usage ban // Traces: 50 for every single substance 禁用 // 痕量: 每单个物质 50			ISO 14389 (2014)
Di-n-pentyl phthalate (DnPP) 邻苯二甲酸二戊酯	131-18-0				
Di-n-hexyl phthalate (DnHP) 邻苯二甲酸二己酯	84-75-3				
Di-n-octyl phthalate (DnOP) 邻苯二甲酸二辛酯	117-84-0				
Di-cyclohexyl phthalate (DCHP) 邻苯二甲酸二环己酯	84-61-7				
n-Pentyl-isopentyl phthalate 正戊基异戊基邻苯二甲酸酯	776297-69-9				
Phthalic acid and derivatives (others than esters) 邻苯二甲酸及其衍生物(非酯类)					
Phthalic acid anhydride 邻苯二甲酸酐	85-44-9	200	1000	1000	ISO 14389 (2014)

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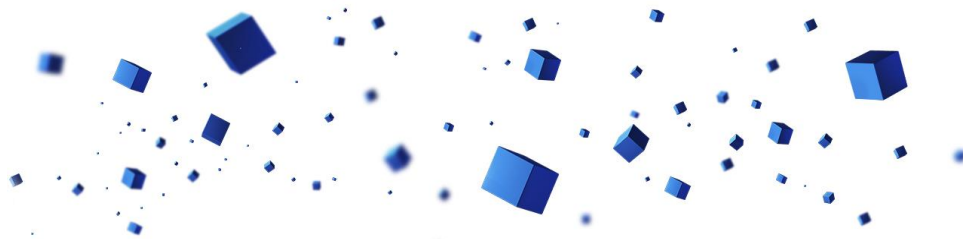
Polyaromatic Hydrocarbons (PAHs) 多环芳香烃						
Chemical Substances 化学物质	CAS Number 化学品文摘号	Limit Value 限值 [mg/kg] Usage range 使用类别			Recommended Sample Preparation // Test Method 推荐样品制备//测试方法	
		A	B	C		
Polyaromatic hydrocarbons (PAHs) 多环芳香烃	Several 多个	Usage ban // Traces: for sum of all PAHs: 10 禁用//痕量： 所有 PAHs 的总和不得 超过 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-苯并蒽	56-55-3	Traces 痕量:				
		0.5	1.0	1.0		
Chrysene 1,2-苯并菲	218-01-9	Traces 痕量:				
		0.5	1.0	1.0		
Benzo(b)fluoroanthene 苯并(b)荧蒽	205-99-2	Traces 痕量:				
		0.5	1.0	1.0		
Benzo(j)fluoroanthene 苯并(j)荧蒽	205-82-3	Traces 痕量:				
		0.5	1.0	1.0		
Benzo(k)fluoroanthene 苯并(k)荧蒽	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 苯并(g,h,i)芘	191-24-2					
Fluoranthene 荧蒽	206-44-0					
Fluorene 芴	86-73-7					
Indeno(1,2,3-cd)pyrene 茚并(1,2,3-cd)芘	193-39-5					

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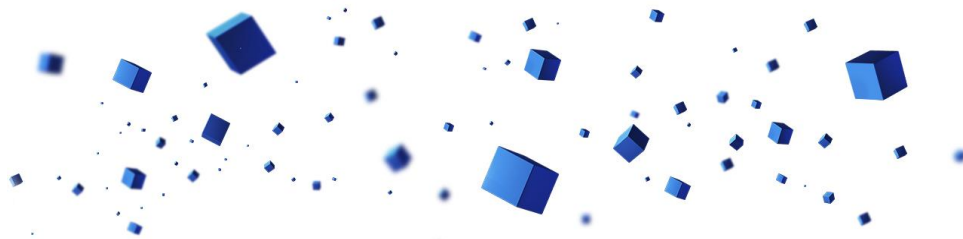
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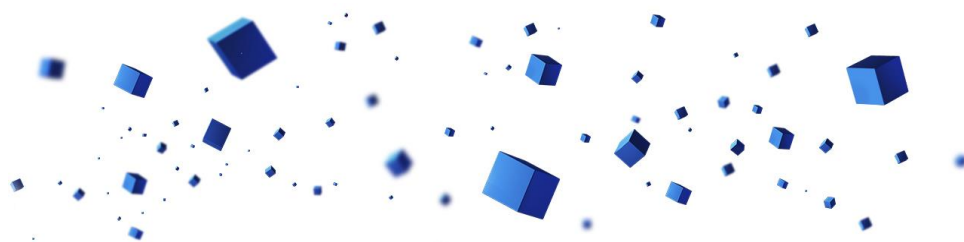
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Naphthalene 萘	91-20-3		
Phenanthrene 菲	85-01-8		
Pyrene 芘	129-00-0		



Polymers 高分子聚合物						
Chemical Substances 化学物质	CAS Number 化学文摘号	Limit Value 限值 [mg/kg] Usage range 使用类别			Recommended Sample Preparation // Test Method 推荐样品制备//测试方法	
		A	B	C		
Polyvinyl chloride (PVC) 聚氯乙烯	9002-86-2	Usage ban for A and B // Not detected A 类和 B 类禁用 // 不得检出 Usage range C // bluesign technologies reserves the right to make a single decision for special applications C 类 // bluesign technologies 保留针对特殊用途制定特别 措施的权利			Beilstein test* // FTIR 贝尔斯登试验* // FTIR *FTIR measurement only if result of Beilstein test was positive *如贝尔斯登试验显阳性, 进行 FTIR 检测	
Polyvinylidenechloride (PVDC) 聚偏二氯乙烯树脂	9002-85-1	Usage ban for A and B // Not detected A 类和 B 类禁用 // 不得检出 Usage range C // bluesign technologies reserves the right to make a single decision for special applications C 类 // bluesign technologies 保留针对特殊用途制定特别 措施的权利			Beilstein test* // FTIR 贝尔斯登试验* // FTIR *FTIR measurement only if result of Beilstein test was positive *如贝尔斯登试验显阳性, 需进 行 FTIR 检测	



Solvents 有机溶剂					
Part 1 第一部分					
Chemical Substances 化学物质	CAS Number 化学品文摘号	Limit Value 限值 [mg/kg] Usage range 使用类别			Recommended Sample Preparation // Test Method 推荐样品制备//测试方法
		A	B	C	
Acetone 丙酮	67-64-1	10	10	100	Headspace GC-MS 顶空进样 GC-MS
Benzene 苯	71-43-2	Usage ban // DL: 5.0 禁用 // 检出限: 5.0			VDA 278 (2011)
Benzine/Gasoline 轻质汽油/汽油	Several 多个				
Benzine 轻质汽油	8032-32-4	Usage ban in manufacturing (e.g. white spirit printing) // DL: 1.0 生产中禁止使用(如石油 溶剂油印花)// 检出限: 1.0			Headspace GC-MS 顶空进样 GC-MS
Gasoline 汽油	8006-61-9	Usage ban in manufacturing (e.g. white spirit printing) // DL: 1.0 生产中禁止使用(如石油 溶剂油印花)// 检出限: 1.0			Headspace GC-MS 顶空进样 GC-MS
Carbon disulfide 二硫化碳	75-15-0	5.0	10	10	Headspace GC-MS 顶空进样 GC-MS
Chlorinated ethanes, all isomers 氯代乙烷及其所有异构体	Several 多个	Usage ban // DL: 1.0 for every single substance 禁用 // 检出限: 每个物质 1.0			Headspace GC-MS 顶空进样 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 环己烷	110-82-7	10			Headspace GC-MS 顶空进样 GC-MS
1,2-Dichloroethane 1,2-二氯乙烷	107-06-2	Usage ban // DL: 1.0 禁用 // 检出限: 1.0			Headspace GC-MS 顶空进样 GC-MS

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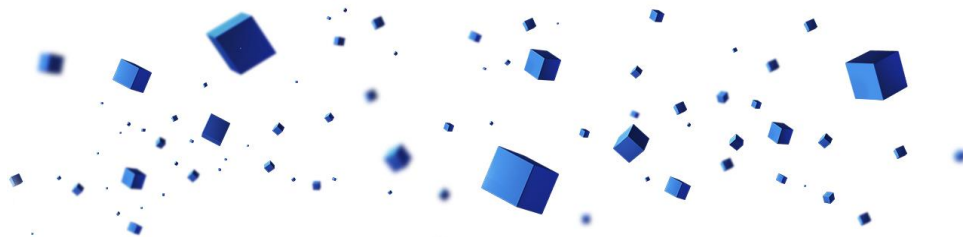
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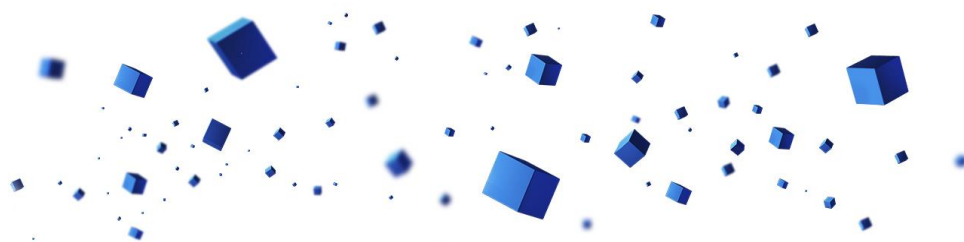
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Dichloromethane 二氯甲烷	75-09-2	Usage ban for direct use in manufacturing of articles // DL: 5.0 禁止直接用于生产中 //检出限: 5.0			Headspace GC-MS 顶空进样 GC-MS
Dimethyl sulfoxide (DMSO) 二甲亚砜	67-68-5	500	1000	1000	Headspace or Extraction with MeOH // GC-MS 顶空进样或甲醇萃取//GC-MS
Hexachlorobutadiene 六氯丁二烯	87-68-3	Usage ban // DL: 10 禁用 // 检出限: 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 有机溶剂						
Part 2 第二部分						
Chemical Substances 化学物质	CAS Number 化学品文摘号	Limit Value 限值 [mg/kg] Usage range 使用类别			Recommended Sample Preparation // Test Method 推荐样品制备//测试方法	
		A	B	C		
n-Hexane 正己烷	110-54-3	Usage ban in textile finishing//DL: 1.0 禁用于纺织品整理 // 检出限: 1.0			Headspace GC-MS 顶空进样 GC-MS	
		Non-textile articles 非纺织品 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 芳纶: bluesign technologies 保留针对特殊用途制定特别措施的权利				
N,N-Dimethylacetamide (DMAc) 二甲基乙酰胺	127-19-5	Usage ban with exception of fiber manufacturing 除纤维生产外禁用 // DL 检出限: 5.0			CEN ISO/TS 16189 (2013)	
		For fiber manufacturing (residual fiber solvent in elastane and PAN): 氨纶和腈纶纤维上残留限值:				
		10	50	50		
		Monitoring for elastane and PAN fibers 监控(氨纶/腈纶纤维)				
		Aramid fibers: for special applications bluesign technologies has the right to make an individual decision 芳纶: bluesign technologies 保留针对特殊用途制定特别措施的权利				



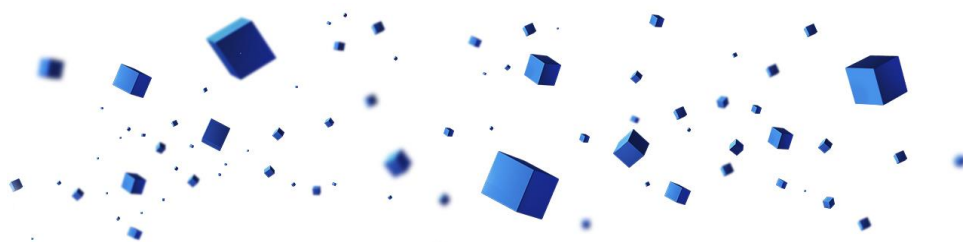
Solvents 有机溶剂						
Part 3 第三部分						
Chemical Substances 化学物质	CAS Number 化学品文摘号	Limit Value 限值 [mg/kg] Usage range 使用类别			Recommended Sample Preparation // Test Method 推荐样品制备//测试方法	
		A	B	C		
N,N-Dimethylformamide (DMF) 二甲基甲酰胺	68-12-2	Usage ban with exception of solvent coating, laminating, fiber manufacturing // DL: 5.0 除溶剂涂层、贴合和纤维生产外禁用 // 检出限: 5.0			CEN ISO/TS 16189 (2013)	
For solvent coating, laminating, fiber manufacturing: 50 溶剂涂层、贴合和纤维生产: 50						
PAN fibers: for special applications bluesign technologies has the right to make an individual decision 腈纶纤维: bluesign technologies 保留针对特殊用途制定特别措施的权利						
n-Pentane n-戊烷	109-66-0	10	50	50	Headspace GC-MS 顶空进样 GC-MS	
Tetrachloroethylene (Perchloroethylene) 四氯乙烯	127-18-4	Usage ban with exception of dry cleaning // DL: 1.0 除干洗外禁用 // 检出限: 1.0			Headspace GC-MS 顶空进样 GC-MS	
		In case of dry cleaning: 10 干洗: 10				
Tetrahydrofuran 四氢呋喃	109-99-9	10			Headspace GC-MS 顶空进样 GC-MS	
Toluene 甲苯	108-88-3	10	50	50	Headspace GC-MS 顶空进样 GC-MS	
Trichloroethylene 三氯乙烯	79-01-6	Usage ban // DL: 5.0 禁用 // 检出限: 5.0			Headspace GC-MS 顶空进样 GC-MS	
Trichloromethane (Chloroform) 三氯甲烷(氯仿)	67-66-3	Usage ban // DL: 5.0 禁用 // 检出限: 5.0			Headspace GC-MS 顶空进样 GC-MS	
1,2,3-Trichloropropane 1,2,3-三氯丙烷	96-18-4	Usage ban // DL: 5.0 禁用 // 检出限: 5.0			Headspace GC-MS 顶空进样 GC-MS	

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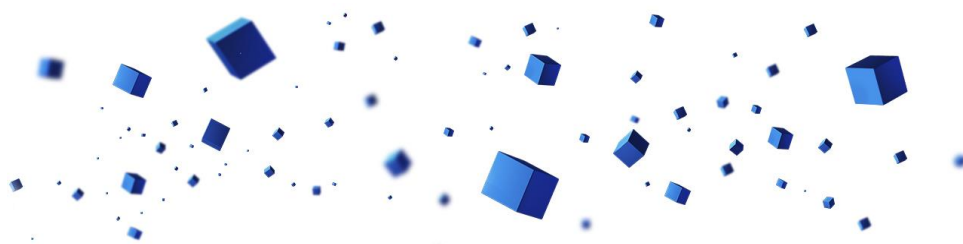
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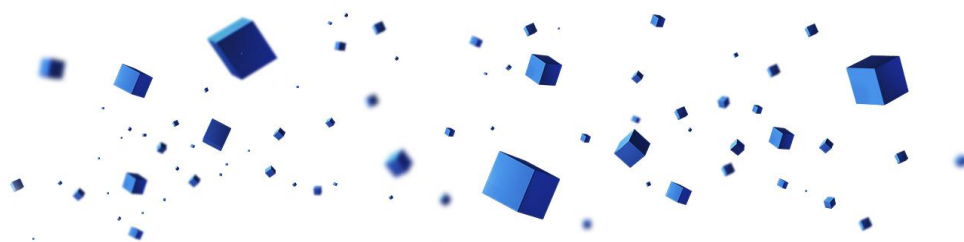
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Trimethylbenzenes, all isomers 三甲苯及其异构体	25551-13-7	50	100	100	Headspace GC-MS 顶空进样 GC-MS
1,2,3-Trimethylbenzene 1,2,3-三甲苯	526-73-8				
1,2,4-Trimethylbenzene 1,2,4-三甲苯	95-63-6	for every single listed substance 每个物质			
1,3,5-Trimethylbenzene 1,3,5-三甲苯	108-67-8				



Solvents 有机溶剂					
Part 4 第四部分					
Chemical Substances 化学物质	CAS Number 化学品文摘号	Limit Value 限值 [mg/kg] Usage range 使用类别			Recommended Sample Preparation // Test Method 推荐样品制备//测试方法
		A	B	C	
Xylene, all isomers 二甲苯及异构体	1330-20-7	Usage ban in textile finishing // DL: 1.0 for every single substance 禁用于纺织品后整理 // 检出限: 每个物质 1.0			Headspace GC-MS 顶空进样 GC-MS
m-Xylene 间二甲苯	108-38-3	Non-textile articles 非纺织品 Traces 痕量:			
o-Xylene 邻二甲苯	95-47-6	1.0	10	10	
p-Xylene 对二甲苯	106-42-3				



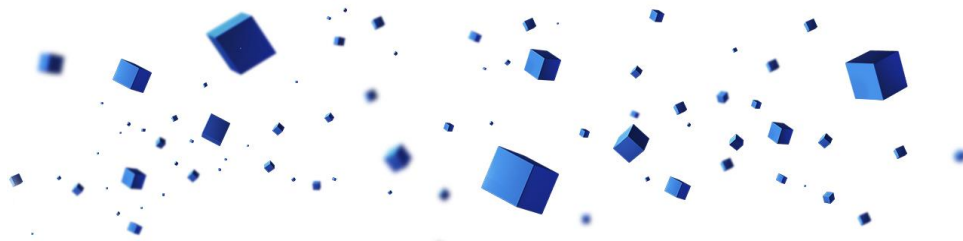
Tin-organic Compounds 有机锡化合物 as mono-, di-, tri-, tetraalkyltin organics 单-, 二-, 三-, 四烷基锡的有机物					
Chemical Substances 化学物质	CAS Number 化学品文摘号	Limit Value 限值 [mg/kg] Usage range 使用类别			Recommended Sample Preparation // Test Method 推荐样品制备//测试方法
		A	B	C	
Tin-organic compounds 有机锡化合物	Several 多个	Usage ban 禁用			ISO/TS 16179 (2012)
Monomethyltin compounds (MMT) 单甲基锡化合物	Several 多个	Traces 痕量: 2.0			
Monobutyltin compounds (MBT) 单丁基锡化合物	Several 多个	Traces 痕量: 1.0			
Monophenyltin compounds (MPhT) 单苯锡化合物	Several 多个	Traces 痕量: 1.0			
Monooctyltin compounds (MOT) 单辛基锡化合物	Several 多个	Traces 痕量: 2.0			
Dimethyltin compounds (DMT) 二甲基锡化合物	Several 多个	DL 检出限: 0.5			
Dipropyltin compounds (DPT) 二丙基锡化合物	Several 多个	Traces 痕量: 1.0			
Dibutyltin compounds (DBT) 二丁基锡化合物	Several 多个	Traces 痕量: 1.0			
Dibutyltin dichloride (DBTC) 二氯二丁基锡	683-18-1	Traces 痕量: 1.0			
Diphenyltin compounds (DPhT) 二苯锡化合物	Several 多个	Traces 痕量: 2.0			
Diocetyl tin compounds (DOT) 二辛基锡化合物	Several 多个	Traces 痕量: 1.0			
Trimethyltin compounds (TMT) 三甲基锡化合物	Several 多个	DL 检出限: 0.5			
Tripropyltin compounds (TPT) 三丙基锡化合物	Several 多个	DL 检出限: 0.5			
Tributyltin compounds (TBT) 三丁基锡化合物	Several 多个	DL 检出限: 0.5			
Bis(tributyltin) oxide (TBTO) 三丁基氧化锡	56-35-9	DL 检出限: 0.5			
Triphenyltin compounds (TPhT) 三苯基锡化合物	Several 多个	DL 检出限: 0.5			
Triocetyl tin compounds (TOT) 三辛基锡化合物	Several 多个	DL 检出限: 0.5			
Tetraethyltin compounds (TeET) 四乙基锡化合物	Several 多个	Traces 痕量: 1.0			
Tetrabutyltin compounds (TeBT) 四丁基锡化合物	Several 多个	DL 检出限: 0.5			
Tetraoctyltin compounds (TeOT) 四正辛基锡化合物	Several 多个	DL 检出限: 0.5			
Tricyclohexyltin compounds (TCyHT) 三环己基锡化合物	Several 多个	DL 检出限: 0.5			

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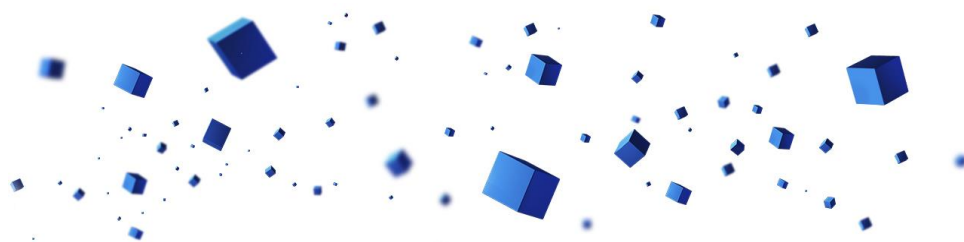
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UV stabilizers 紫外线稳定剂						
Chemical Substances 化学物质	CAS Number 化学品文摘号	Limit Value 限值 [mg/kg] Usage range 使用类别			Recommended Sample Preparation // Test Method 推荐样品制备//测试方法	
		A	B	C		
UV stabilizers 紫外线稳定剂	Several 多个	Usage ban 禁用				
UV-320 2-benzotriazol-2-yl-4,6-di-tert-butylphenol 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 限用但没有限值的化学物质

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.

本节所述的化学物质和消费者安全无关，或其只在生产的最初工艺中使用，通常不会在制品中有残留，因此没有制定消费者安全限值；但相关限制和禁用规定将会透过 bluesign® CHEMICAL ASSESSMENT 化学品审查 (bluesign® TOOL 限值) 以及进行现场审核时进行控管。

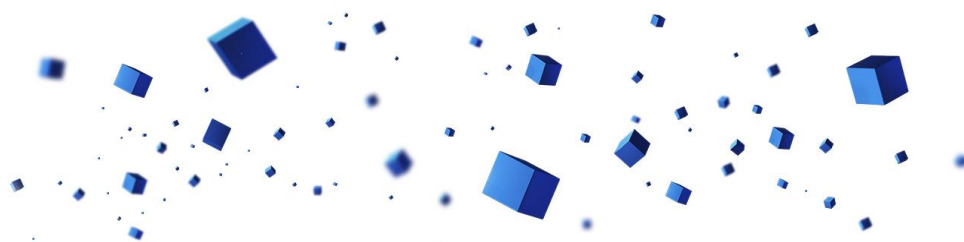
Substances with usage restrictions but no consumer safety limits 限用但没有限值的化学物质		
Part 1 第一部分		Usage restrictions 用途限制
Chemical Substances 化学物质	CAS Number 化学品文摘号	
Bis(chloromethyl)ether 二氯甲基醚	542-88-1	Usage ban 禁用 Bis(chloromethyl)ether is a reaction product of formaldehyde and conc. hydrochloric acid. Formation shall be avoided in every case. 二氯甲基醚为甲醛和浓盐酸的反应产物，在任何情况下不得产生此化学物质
1,3-Butadiene 1,3 丁二烯	106-99-0	Usage ban 禁用
Di(hydrogenated tallow alkyl)dimethylammonium chloride (DHTDMAC) 双(氢化牛油烷基)二甲基氯化铵	61789-80-8	Usage ban 禁用
Distearyl dimethyl ammonium chloride (DSDMAC) 双硬脂基二甲基氯化铵	107-64-2	Usage ban 禁用
Ditallow dimethyl ammonium chloride (DTDMAC) 双牛脂基二甲基氯化铵	68783-78-8	Usage ban 禁用
EDTA/DTPA 乙二胺四乙酸/二乙撑三胺五乙酸	Several 多个	Usage ban as water softener for freshwater preparation. Usage ban in textile auxiliaries. 禁止作为原水软水剂用 禁止用于纺织品助剂
Ethylene diamine tetraacetic acid (EDTA), disodium salt dihydrate 乙二胺四乙酸及其二水二钠盐	139-33-3 / 6381-92-6	
Ethylene diamine tetraacetic acid (EDTA), tetrasodium salt 乙二胺四乙酸及其四钠盐	64-02-8	
Diethylene triamine pentaacetic acid (DTPA), sodium salt 二乙撑三胺五乙酸及其钠盐	140-01-2	

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Ethylene oxide 环氧乙烷	75-21-8	Usage ban 禁用
Propylene oxide 环氧丙烷	75-56-9	Usage ban 禁用
Hypochlorite/ Chlorine 次氯酸盐/氯		Several restrictions: compare with Guidance Sheet Hypochlorite 多重限制： 详见次氯酸盐的使用指南
Calcium hypochlorite 次氯酸钙	7778-54-3	
Sodium hypochlorite 次氯酸钠	7681-52-9	
Chlorine 氯	7782-50-5	
Sodium chlorite 亚氯酸钠	7758-19-2	Usage ban with exception of extra white polyester for home textiles 除白色涤纶家用纺织品外禁用

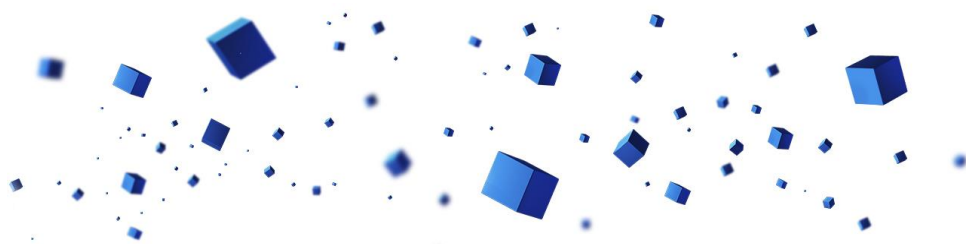
Substances with usage restrictions but no consumer safety limits 限用但没有限值的化学物质		
Part 2 第二部分		
Chemical Substances 化学物质	CAS Number 化学品文摘号	Usage restrictions 用途限制
Phosphonates and salts 磷酸酯及其盐	Several 多个	Usage ban as water softener for freshwater preparation. Minimization requirement 禁止作为原水软水剂用 最少使用原则
Amino, tris(methylene phosphonic acid) 氨基三甲叉磷酸	6419-19-8	
Diethylenetriaminepenta (methylenephosphonic acid) 二乙烯三胺五甲叉磷酸	15827-60-8	
Ethylenediaminetetra (methylenephosphonic acid) 乙二胺四甲叉磷酸钠	1429-50-1	
1-Hydroxyethane-1,1-diphosphonic acid 羟基乙叉二磷酸	2809-21-4	
Potassium permanganate 高锰酸钾	7722-64-7	Usage ban: compare with Guidance Sheet Potassium permanganate 禁用: 详见高锰酸钾的使用指南

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Annex I Compilation of single substances

附录 I 各类别的限用物质汇总清单

In the following tables single substances belonging to groups:

本附录按照如下分别列出各物质类别内的限用物质清单:

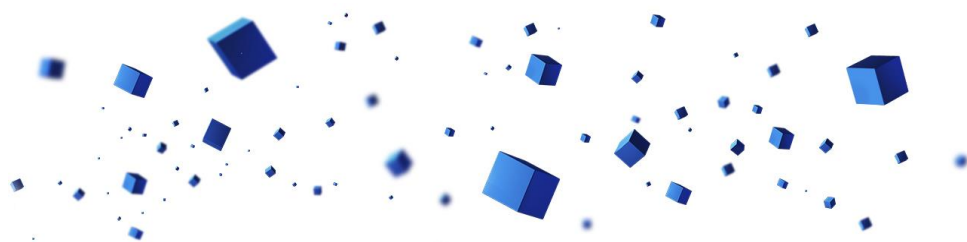
- Asbestos 石棉
- Chlorinated benzenes and toluenes 氯代苯和氯代甲苯类
- Colorants which can cleave in carcinogenic amines 可裂解致癌芳香胺的着色剂
- Dioxins and furans 二噁英和呋喃
- Greenhouse gases, fluorinated 含氟温室气体
- Ozone depleting substances 臭氧消耗物质
- Pesticides 杀虫剂

are listed.

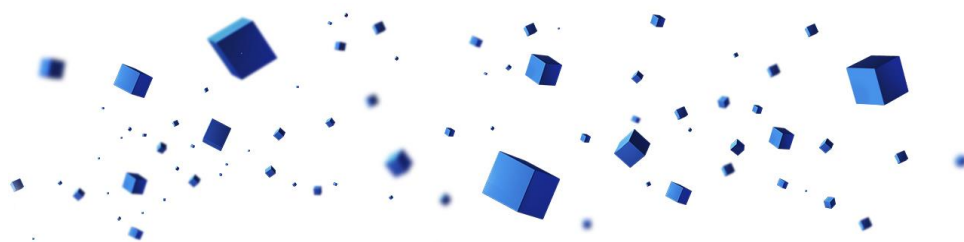
Limit values and test methods for the substance groups are provided in section 5.1.6.

限值及其检测方法请见第 5.1.6 节。

Asbestos 石棉	
Chemical Substances 化学物质	CAS Number 化学品文摘号
Actinolite 阳起石	77536-66-4
Amosite 铁石棉	12172-73-5
Anthophyllite 直闪石	77536-67-5
Chrysotile 温石棉	12001-29-5
Crocidolite 青石棉	12001-28-4
Tremolite 透闪石	77536-68-6



Chlorinated Benzenes and Toluenes 氯代苯和氯代甲苯类			
Chemical Substances 化学物质	CAS Number 化学品文摘号	Chemical Substances 化学物质	CAS Number 化学品文摘号
Chlorinated benzenes 氯代苯类		Dichlorotoluenes, all isomers 二氯甲苯,及其异构体	Several 多个
Dichlorobenzenes, all isomers 二氯苯, 及其异构体	Several 多个	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, 及其异构体	Several 多个	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,及其异构体	Several 多个
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, 及其异构体	Several 多个	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
Chlorinated toluenes 氯代甲苯类		a,a,a-Trichlorotoluene a,a,a-三氯甲苯	98-07-7
Monochlorotoluenes, all isomers 一氯甲苯,及其异构体	Several 多个	Tetrachlorotoluenes, all isomers 四氯甲苯,及其异构体	Several 多个
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



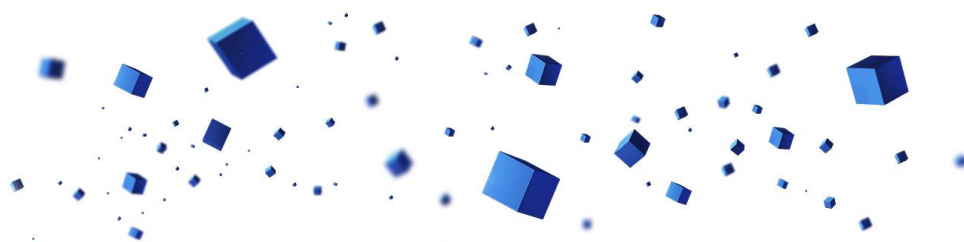
Colorants which can cleave in carcinogenic amines (List is not exhaustive) 可裂解致癌芳香胺的着色剂(不限于已列出的) Part 1 第一部分			
Chemical Substances 化学物质	CAS Number 化学品文摘号	Chemical Substances 化学物质	CAS Number 化学品文摘号
Acid Black 29 酸性黑 29	12217-14-0	Basic Red 76 碱性红 76	68391-30-0
Acid Black 94 酸性黑 94	6358-80-1	Basic Red 111 碱性红 111	113741-92-7
Acid Black 131 酸性黑 131	12219-01-1	Basic Red 114 碱性红 114	-
Acid Black 132 酸性黑 132	12219-02-2	Basic Yellow 82 碱性黄 82	-
Acid Black 209 酸性黑 209	72827-68-0	Basic Yellow 103 碱性黄 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 酸性红 4	5858-39-9	Direct Black 154 直接黑 154	54804-85-2
Acid Red 5 酸性红 5	5858-63-9	Direct Blue 1 直接蓝 1	2610-05-1
Acid Red 24 酸性红 24	5858-30-0	Direct Blue 2 直接蓝 2	2429-73-4
Acid Red 35 酸性红 35	6441-93-6	Direct Blue 3 直接蓝 3	2429-72-3
Acid Red 73 酸性红 73	5413-75-2	Direct Blue 8 直接蓝 8	2429-71-2
Acid Red 85 酸性红 85	3567-65-5	Direct Blue 9 直接蓝 9	6428-98-4
Acid Red 104 酸性红 104	8006-06-2	Direct Blue 10 直接蓝 10	4198-19-0
Acid Red 114 酸性红 114	6459-94-5	Direct Blue 14 直接蓝 14	72-57-1
Acid Red 115 酸性红 115	6226-80-8	Direct Blue 15 直接蓝 15	2429-74-5
Acid Red 116 酸性红 116	6245-62-1	Direct Blue 21 直接蓝 21	6420-09-3
Acid Red 119:1 酸性红 119:1	90880-75-4	Direct Blue 22 直接蓝 22	2586-57-4
Acid Red 128 酸性红 128	6548-30-7	Direct Blue 25 直接蓝 25	25180-27-2
Acid Red 148 酸性红 148	6300-53-4	Direct Blue 35 直接蓝 35	6473-33-2
Acid Red 150 酸性红 150	6226-78-4	Direct Blue 53 直接蓝 53	314-13-6
Acid Red 158 酸性红 158	8004-55-5	Direct Blue 151 直接蓝 151	110735-25-6
Acid Red 167 酸性红 167	61901-41-5	Direct Blue 160 直接蓝 160	12222-02-5
Acid Red 264 酸性红 264	6505-96-0	Direct Blue 173 直接蓝 173	12235-72-2
Acid Red 265 酸性红 265	6358-43-6	Direct Blue 192 直接蓝 192	159202-76-3
Acid Red 420 酸性红 420	-	Direct Blue 215 直接蓝 215	6771-80-8
Acid Violet 12 酸性紫 12	6625-46-3	Direct Blue 295 直接蓝 295	6420-22-0
Azoic Diazo Component 12 重氮组分 12	99-55-8	Direct Blue 306 直接蓝 306	-
Azoic Diazo Component 48 重氮组分 48	119-90-4	Direct Brown 1 直接棕 1	3811-71-0
Azoic Diazo Component 112 重氮组分 112	92-87-5	Direct Brown 1:2 直接棕 1:2	2586-58-5
Azoic Diazo Component 113 重氮组分 113	119-93-7	Direct Brown 2 直接棕 2	25255-06-5
Basic Brown 4 碱性棕 4	8005-78-5	Direct Brown 6 直接棕 6	25180-39-6
Basic Red 42 碱性红 42	12221-66-8	Direct Brown 25 直接棕 25	33363-87-0

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本文为英文编写，为便于理解翻译为中文。如中英文不一致时，以英文文本为准。

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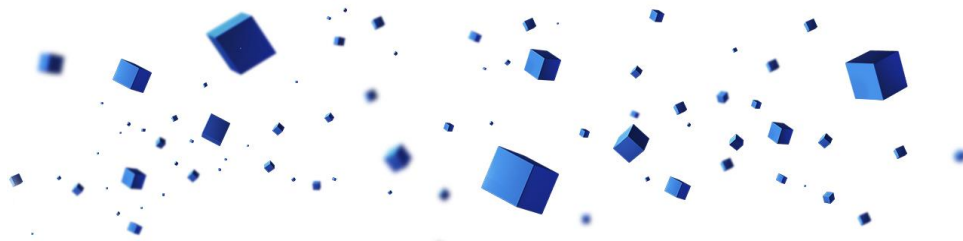
Colorants which can cleave in carcinogenic amines (List is not exhaustive) 可裂解出致癌芳香胺的着色剂(不限于已列出的) Part 2 第二部分			
Chemical Substances 化学物质	CAS Number 化学品文摘号	Chemical Substances 化学物质	CAS Number 化学品文摘号
Direct Brown 27 直接棕 27	6360-29-8	Direct Red 39 直接红 39	6358-29-8
Direct Brown 31 直接棕 31	25180-41-0	Direct Red 44 直接红 44	2302-97-8
Direct Brown 33 直接棕 33	1324-87-4	Direct Red 46 直接红 46	6548-29-4
Direct Brown 51 直接棕 51	4623-91-0	Direct Red 62 直接红 62	6420-43-5
Direct Brown 59 直接棕 59	6247-51-4	Direct Red 67 直接红 67	6598-56-7
Direct Brown 74 直接棕 74	8014-91-3	Direct Red 72 直接红 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 直接绿 1	3626-28-6	Direct Yellow 24 直接黄 24	6486-29-9
Direct Green 6 直接绿 6	4335-09-5	Direct Yellow 48 直接黄 48	6459-97-8
Direct Green 8 直接绿 8	25180-47-6	Disperse Orange 60 分散橙 60	12270-44-9
Direct Green 8:1 直接绿 8:1	76012-70-9	Disperse Red 151 分散红 151	61968-47-6
Direct Green 85 直接绿 85	72390-60-4	Disperse Red 221 分散红 221	64426-35-3
Direct Orange 1 直接橙 1	54579-28-1	Disperse Yellow 7 分散黄 7	6300-37-4
Direct Orange 6 直接橙 6	6637-88-3	Disperse Yellow 56 分散黄 56	54077-16-6
Direct Orange 7 直接橙 7	2868-76-0	Disperse Yellow 218 分散黄 218	83929-90-2
Direct Orange 8 直接橙 8	64083-59-6	Solvent Orange 7 溶剂橙 7	3118-97-6
Direct Orange 10 直接橙 10	6405-94-3	Mordant Red 57 媒介红 57	2429-84-7
Direct Orange 108 直接橙 108	6358-79-8	Mordant Yellow 16 媒介黄 16	8003-87-0
Direct Red 1 直接红 1	25188-24-3	Solvent Red 1 溶剂红 1	1229-55-6
Direct Red 2 直接红 2	992-59-6	Solvent Red 19 溶剂红 19	6368-72-5
Direct Red 7 直接红 7	25188-28-7	Solvent Red 23 溶剂红 23	85-86-9
Direct Red 10 直接红 10	25188-29-8	Solvent Red 24 溶剂红 24	85-83-6
Direct Red 13 直接红 13	25188-30-1	Solvent Red 26 溶剂红 26	4477-79-6
Direct Red 17 直接红 17	25188-32-3	Solvent Red 68 溶剂红 68	61813-90-9
Direct Red 21 直接红 21	6406-01-5	Solvent Red 69 溶剂红 69	5413-75-2
Direct Red 22 直接红 22	6448-80-2	Solvent Red 164 溶剂红 164	71819-51-7
Direct Red 24 直接红 24	6420-44-6	Solvent Red 215 溶剂红 215	-
Direct Red 26 直接红 26	3687-80-7	Solvent Yellow 72 溶剂黄 72	61813-98-7
Direct Red 37 直接红 37	3530-19-6		

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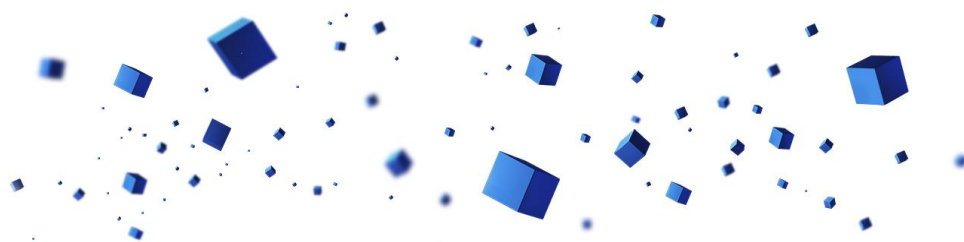
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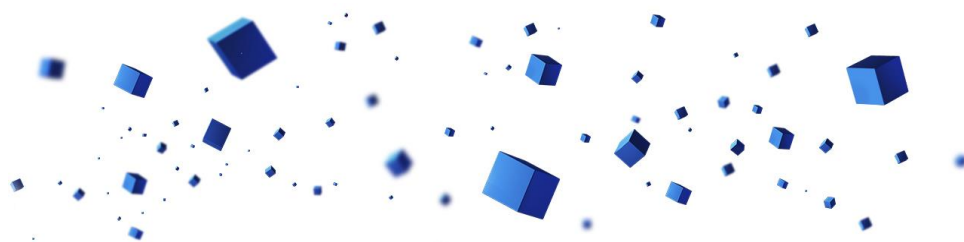
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Dioxins and Furans 二噁英和呋喃			
Chemical Substances 化学物质	CAS Number 化学品文摘号	Chemical Substances 化学物质	CAS Number 化学品文摘号
Group 组别 1:	Several 多个	Group 组别 3:	Several 多个
2,3,7,8-Tetrachlorodibenzo-p-dioxin 2,3,7,8-四氯二苯并对二噁英	1746-01-6	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin 1,2,3,4,6,7,8-七氯代二苯并对二噁英	35822-46-9
1,2,3,7,8-Pentachlorodibenzo-p-dioxin 1,2,3,7,8-五氯二苯并对二噁英	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并对二噁英	3268-87-9
2,3,7,8-Tetrachlorodibenzofuran 2,3,7,8-四氯二苯并呋喃	51207-31-9	1,2,3,4,6,7,8-Heptachlorodibenzofuran 1,2,3,4,6,7,8-七氯代二苯并呋喃	67562-39-4
2,3,4,7,8-Pentachlorodibenzofuran 2,3,4,7,8-五氯二苯并呋喃	57117-31-4	1,2,3,4,7,8,9-Heptachlorodibenzofuran 1,2,3,4,7,8,9-七氯代二苯并呋喃	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并呋喃	39001-02-0
Group 组别 2:	Several 多个	Group 组别 4:	Several 多个
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin 1,2,3,4,7,8-六氯二苯并对二噁英	39227-28-6	2,3,7,8-Tetrabromodibenzo-p-dioxin 2,3,7,8-四溴二苯并对二噁英	50585-41-6
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin 1,2,3,6,7,8-六氯二苯并对二噁英	57653-85-7	1,2,3,7,8-Pentabromodibenzo-p-dioxin 1,2,3,7,8-五溴二苯并对二噁英	109333-34-8
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin 1,2,3,7,8,9-六氯二苯并对二噁英	19408-74-3	2,3,7,8-Tetrabromodibenzofuran 2,3,7,8-四溴二苯并呋喃	67733-57-7
1,2,3,7,8-Pentachlorodibenzofuran 1,2,3,7,8-五氯代二苯并呋喃	57117-41-6	2,3,4,7,8-Pentabromodibenzofuran 2,3,4,7,8-五溴二苯并呋喃	131166-92-2
1,2,3,4,7,8-Hexachlorodibenzofuran 1,2,3,4,7,8-六氯代二苯并呋喃	70648-26-9	Group 5 组别 5:	Several 多个
1,2,3,6,7,8-Hexachlorodibenzofuran 1,2,3,6,7,8-六氯代二苯并呋喃	57117-44-9	1,2,3,4,7,8-Hexabromodibenzo-p-dioxin 1,2,3,4,7,8-六溴二苯并对二噁英	110999-44-5
1,2,3,7,8,9-Hexachlorodibenzofuran 1,2,3,7,8,9-六氯代二苯并呋喃	72918-21-9	1,2,3,6,7,8-Hexabromodibenzo-p-dioxin 1,2,3,6,7,8-六溴二苯并对二噁英	110999-45-6
2,3,4,6,7,8-Hexachlorodibenzofuran 2,3,4,6,7,8-六氯代二苯并呋喃	60851-34-5	1,2,3,7,8,9-Hexabromodibenzo-p-dioxin 1,2,3,7,8,9-六溴二苯并对二噁英	110999-46-7
		1,2,3,7,8-Pentabromodibenzofuran 1,2,3,7,8-五溴二苯并呋喃	107555-93-1



Greenhouse Gases, fluorinated 含氟温室气体			
Chemical Substances 化学物质	CAS Number 化学品文摘号	Chemical Substances 化学物质	CAS Number 化学品文摘号
Sulphur hexafluoride - SF ₆ 六氟化硫 - SF ₆	2551-62-4	Hydrofluorocarbons (HFCs) cont. 氟代烷烃(续)	
Perfluorocarbons (PFCs) 全氟化碳	Several 多个	HFC-125 - C ₂ H ₅ F 五氟乙烷	354-33-6
Perfluoromethane (CF ₄) 四氟甲烷	75-73-0	HFC-134 - C ₂ H ₂ F ₄ 1,1,2,2-四氟乙烷	359-35-3
Perfluoroethane (C ₂ F ₆) 六氟乙烷	76-16-4	HFC-134a - CH ₂ FCF ₃ 1,1,1,2-四氟乙烷	811-97-2
Perfluoropropane (C ₃ F ₈) 全氟丙烷	76-19-7	HFC-152a - C ₂ H ₄ F ₂ 1,1-二氟乙烷	75-37-6
Perfluorobutane (C ₄ F ₁₀) 全氟丁烷	355-25-9	HFC-143 - C ₂ H ₃ F ₃ 1,1,2-三氟乙烷	430-66-0
Perfluoropentane (C ₅ F ₁₂) 全氟戊烷	678-26-2	HFC-143a - C ₂ H ₃ F ₃ 1,1,1-三氟乙烷	420-46-2
Perfluorohexane (C ₆ F ₁₄) 全氟己烷	355-42-0	HFC-227ea - C ₃ H ₇ F 1,1,1,2,3,3,3-七氟丙烷	431-89-0
Perfluorocyclobutane (c-C ₄ F ₈) 全氟环己烷	115-25-3	HFC-236cb - CH ₂ FCF ₂ CF ₃ 1,1,1,2,2,3-六氟丙烷	677-56-5
Hydrofluorocarbons (HFCs) 氟代烷烃	Several 多个	HFC-236ea - CHF ₂ CHF ₂ CF ₃ 1,1,1,2,3,3-六氟丙烷	431-63-0
HFC-23 - CHF ₃ 三氟甲烷	75-46-7	HFC-236fa - C ₃ H ₂ F ₆ 1,1,1,3,3,3-六氟丙烷	690-39-1
HFC-32 - CH ₂ F ₂ 二氟甲烷	75-10-5	HFC-245ca - C ₃ H ₃ F ₅ 1,1,2,2,3-五氟丙烷	679-86-7
HFC-41 - CH ₃ F 氟甲烷	593-53-3	HFC-245fa - CHF ₂ CH ₂ CF ₃ 1,1,1,3,3-五氟丙烷	460-73-1
HFC-43-10mee - C ₅ H ₂ F ₁₀ 十氟戊烷	138495-42-8	HFC-365mfc - CF ₃ CH ₂ CF ₂ CH ₃ 1,1,1,3,3-五氟丁烷	406-58-6



Ozone Depleting Substances (CFCs) 臭氧消耗物质			
Part 1 第一部分			
Chemical Substances 化学物质	CAS Number 化学品文摘号	Chemical Substances 化学物质	CAS Number 化学品文摘号
Ozone-depleting substances class I 臭氧消耗物质第 I 类	Several 多个	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 哈龙-1211	353-59-3	C2HF3Br2 – HBFC-123 B2 (Halon 2302) 二溴三氟乙烷– HBFC-123 B2 哈龙 2302	354-04-1
Bromotrifluoromethane Halon-1301 三氟一溴甲烷 哈龙-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 哈龙-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

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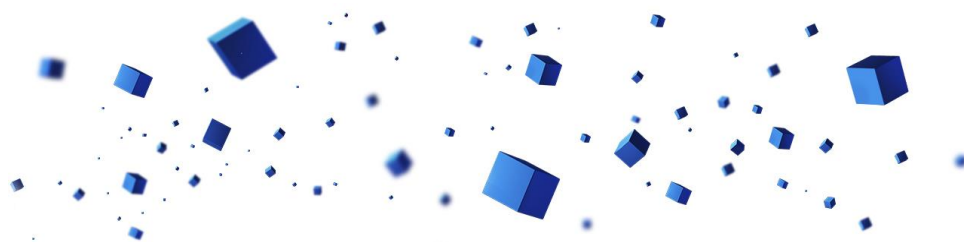
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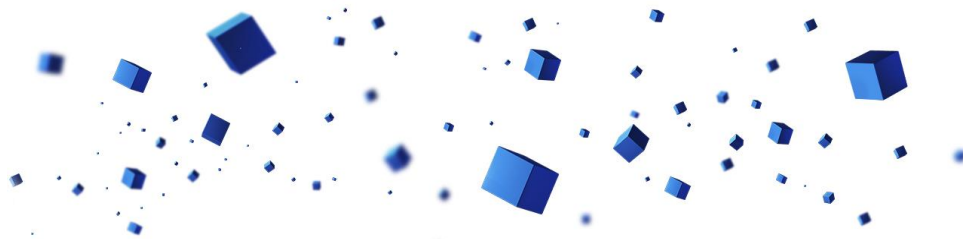
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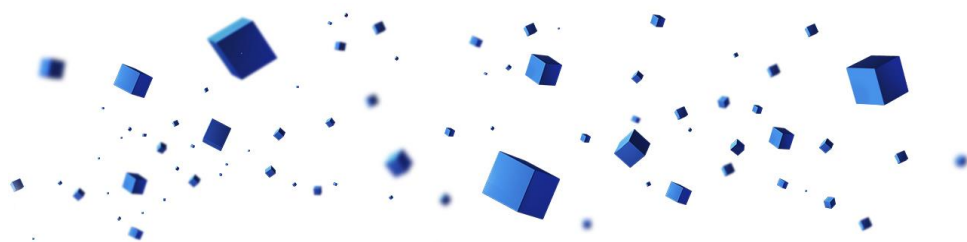
Hexachlorodifluoropropane CFC-212 二氟六氯丙烷 CFC-212	3182-26-1	C3HFBr6 - HBFC-221 B6 六溴一氟丙烷- HBFC-221 B6	-
Pentachlorotrifluoropropane CFC-213 三氟五氯丙烷 CFC-213	2354-06-5	C3HF2Br5 - HBFC-222 B5 五溴二氟丙烷- HBFC-222 B5	-
Tetrachlorotetrafluoropropane CFC-214 四氟四氯丙烷 CFC-214	29255-31-0	C3HF3Br4 - HBFC-223 B4 四溴三氟丙烷- 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	-



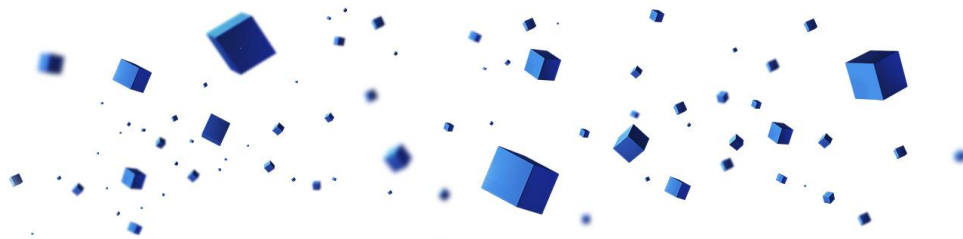
Ozone Depleting Substances (CFCs) 臭氧消耗物质			
Part 2 第二部分			
Chemical Substances 化学物质	CAS Number 化学品文摘号	Chemical Substances 化学物质	CAS Number 化学品文摘号
C3H2F2Br4 - HBFC-232 B4 四溴二氟丙烷- HBFC-232 B4	148875-98-3	Ozone-depleting substances class II 臭氧消耗物质第 II 类	Several 多个
C3H2F3Br3 - HBFC-233 B3 三溴三氟丙烷- HBFC-233 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



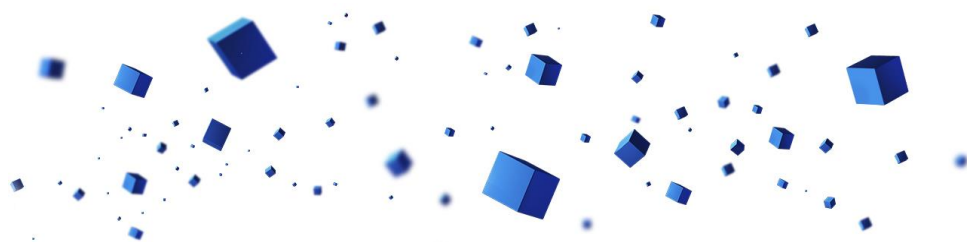
Ozone Depleting Substances (CFCs) 臭氧消耗物质			
Part 3 第三部分			
Chemical Substances 化学物质	CAS Number 化学品文摘号	Chemical Substances 化学物质	CAS Number 化学品文摘号
Pentachlorodifluoropropane HCFC-222 二氟五氯丙烷 HCFC-222	422-49-1	Monochloropentafluoropropane HCFC-235 五氟一氯丙烷 HCFC-235	460-92-4
Tetrachlorotrifluoropropane HCFC-223 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 杀虫剂			
Part 1 第一部分			
Chemical Substances 化学物质	CAS Number 化学品文摘号	Chemical Substances 化学物质	CAS Number 化学品文摘号
Acetamiprid 啉虫脒	135410-20-7 160430-64-8	Cypermethrin 氯氰菊酯	52315-07-8
Alachlor 草不绿	15972-60-8	Deltamethrin 溴氰菊酯	52918-63-5
Aldicarb 涕灭威	116-06-3	Demeton 内吸磷	919-86-8
Aldrine 艾氏剂	309-00-2	Diazinon 二嗪农	333-41-5
Atrazine 阿特拉津	1912-24-9	1,2-Dibromo-3-chloropropane (DBCP) 1,2-二溴-3-氯丙烷	96-12-8
Azinphos methyl 甲基谷硫磷(保棉磷)	86-50-0	Dichlofenthion 除线磷	97-17-6
Azinphos ethyl 乙基谷硫磷(益棉磷)	2642-71-9	Dichlofluanide 苯氟磺胺	1085-98-9
Binapacryl 乐杀螨	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 乙基溴硫磷	4824-78-6	p,p'-Dichlorodiphenyldichloroethane (p,p'-DDD) 2,2-双(对氯苯基)-1,1-二氯乙烷	72-54-8
Captafol 敌菌丹	2425-06-1	o,p'-Dichlorodiphenyldichloroethylene (o,p'-DDE) 3-邻氯苯基-2-对氯苯基-1,1-二氯乙烯	3424-82-6
Carbaryl 胺甲萘	63-25-2	p,p'-Dichlorodiphenyldichloroethylene (p,p'-DDE) 2,2-双(4-氯苯基)-1,1-二氯乙烯	72-55-9
Carbendazim 多菌灵	10605-21-7	o,p'-Dichlorodiphenyltrichloroethane (o,p'- DDT) and its isomers; preparations containing DDT and its isomers 2-邻氯苯基-2-对氯苯基-1,1,1-三氯乙烷及其 异构体;制备时含有 DDT 及其异构体	789-02-6
Chlordane 氯丹	57-74-9	p,p'-Dichlorodiphenyltrichloroethane (p,p'- DDT) and its isomers; preparations containing DDT and its isomers 1,1-双(4-氯苯基)2,2,2-三氯乙烷及其异构体; 制备时含 DDT 及其异构体	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,及其盐和化合物	94-75-7
Chlordimeform 克死螨	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)-2-三氟甲基苯并咪唑	63405-99-2
Chlorfenvinphos 毒虫畏	470-90-6	Dichlorprop 2,4-滴丙酸	120-36-5
Chlorobenzilate 克氯苯	510-15-6	Dichlorvos 敌敌畏	62-73-7
Chlorpyrifos 毒死蜱	2921-88-2	Dicofol 三氯杀螨醇	115-32-2
Chlorthalonil 百菌清杀菌剂	1897-45-6	Dicrotophos 百治磷	141-66-2
Clothianidin 噻虫胺	210880-92-5	Dicyclanil 环虫腈	112636-83-6
Coumaphos 蝇毒磷	56-72-4	Dieldrine 狄氏剂	60-57-1
Cyfluthrin 氟氯氰菊酯	68359-37-5	Diflubenzuron 二氟脲	35367-38-5
Cyhalothrin, lambda 三氟氯氰菊酯	91465-08-6	Dimethoate 乐果	60-51-5



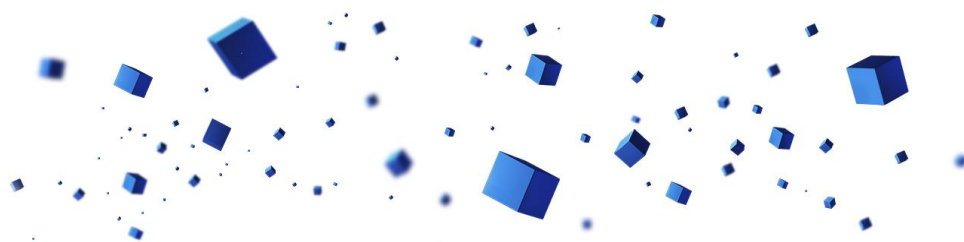
Pesticides 杀虫剂			
Part 2 第二部分			
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Dinotefuran 呋虫胺	165252-70-0	Linuron 利谷隆	330-55-2
Dinoseb, its salts and acetate 地乐酚及其盐和醋酯	88-85-7 and others	Malathion 马拉松(有机磷杀虫剂)	121-75-5
Dinoterb 特乐酚	1420-07-1	MCPA 2-甲-4-苯氧基乙酸	94-74-6
Disulfoton 乙拌磷	298-04-4	MCPB 氯丁酸	94-81-5
Diuron 敌草隆	330-54-1	Mecoprop 丙酸	93-65-2
DNOC 二硝甲酚	534-52-1	Methamidophos 甲胺磷	10265-92-6
Endosulfan 硫丹	115-29-7	Methoxychlor 甲氧滴滴涕	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 甲基对硫磷	298-00-0
Endrine 异狄氏剂	72-20-8	Mevinophos 速灭磷	7786-34-7
Esfenvalerate 高氰戊菊酯	66230-04-4	Mirex 灭蚊灵	2385-85-5
Ethion 乙硫磷	563-12-2	Monocrotophos 久效磷	6923-22-4
Ethyl parathion 乙基对硫磷	56-38-2	Monolinuron 绿谷磷	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 皮蝇磷	299-84-3	Omethoate 氧化乐果	1113-02-6
Fenitrothion 杀螟硫磷	122-14-5	Oxydemeton-methyl 乙酰甲胺磷	301-12-2
Fenvalerate 氰戊菊酯	51630-58-1	Paraquat dication 双阳离子百草枯	4685-14-7
Flumethrin 氟氯苯菊酯	69770-45-2	Paraquat dichloride 二氯化百草枯	1910-42-5
Heptachlor 七氯	76-44-8	Pentachloroanisole 五氯甲氧基苯	1825-21-4
Heptachlor epoxide 环氧七氯	1024-57-3	Perthane 乙滴滴	72-56-0
Hexachlorocyclohexane (HCH), all isomers 六氯环己烷及其同分异构体	608-73-1	Phosphamidon 磷胺	13171-21-6
Imidacloprid 吡虫啉	105827-78-9 138261-41-3	Phoxim 辛硫磷	14816-18-3
Isodrin 异艾氏剂	465-73-6	Pirimiphos-methyl 甲基嘧啶磷	29232-93-7
Isoproturon 异丙隆	34123-59-6	Profenophos 丙溴磷	41198-08-7
Kelevane 克来范	4234-79-1	Propanil 敌稗	709-98-8
Lindane (gamma-HCH) 林丹	58-89-9	Propetamphos 胺丙畏	31218-83-4

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Pesticides 杀虫剂			
Part 3 第三部分			
Chemical Substances 化学物质	CAS Number 化学品文摘号	Chemical Substances 化学物质	CAS Number 化学品文摘号
Pyrazon 吡唑啉	1698-60-8	Tolyfluanide 甲苯氟磺胺	731-27-1
Quinalphos 喹硫磷	13593-03-8	Toxaphene 八氯苡烯	8001-35-2
Quintozene 五氯硝基苯	82-68-8	Tribufos (DEF) 脱叶磷	78-48-8
Simazine 西玛津	122-34-9	Trichlorfon 三氯磷酸酯	52-68-6
Strobane 毒杀芬	8001-50-1	2,4,5-Trichlorophenoxyacetic acid, salts and compounds 2,4,5-三氯苯氧基乙酸, 及其盐和化合物	93-76-5
Telodrin 碳氯灵	297-78-9	2-(2,4,5-Trichlorophenoxy)propionic acid, salts and compounds 2-(2,4,5-三氯苯氧基)丙酸, 及其盐和化合物	93-72-1
Tiacloprid 噻虫啉	111988-49-9	Triflumuron 杀虫隆	64628-44-0
Timiperone (DTTB) 替米哌隆	57648-21-2	Trifluralin 氟乐灵	1582-09-8
Thiamethoxam 噻虫嗪	153719-23-4	Vinclozolin 农利灵	50471-44-8



Annex II Usage Ranges

附录 II 使用类别

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

使用类别是根据对消费者安全的相关要求对消费品进行分类。

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. 消费者安全和使用类别的建立以口腔接触，皮肤接触和呼吸接触为导向原则，其中与人类皮肤的接触为主要归类原则。如因特定使用情形产生更为严格的要求，应以相应的接触方式为准作出制定。

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

使用类别分三类(A, B, C)，其中 A 类有最为严格的限值及禁用要求：

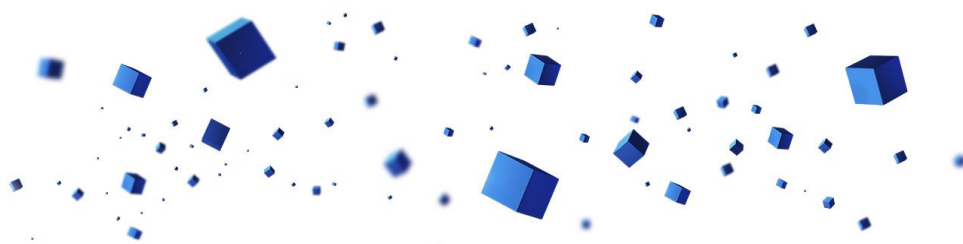
- Usage Range A: Next to skin use and baby articles (0 to 3 years)
使用类别 A：紧贴皮肤类和婴儿类(零至三岁)
- Usage Range B: Occasional skin contact
使用类别 B：偶尔接触皮肤类
- Usage Range C: No skin contact
使用类别 C：不接触皮肤类

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.

这意味着一套服装，如没有特定穿着用途无需达到 A 类要求，至少需要满足 B 类要求。

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.

下表列出日常消费用品的使用类别。除作出说明的例外部分，一个使用类别适用于一个消费用品的所有部分。



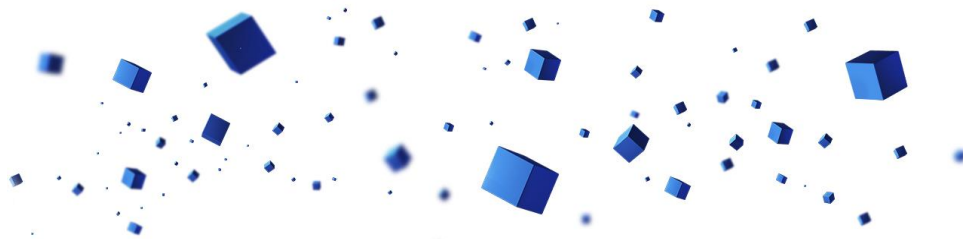
Consumer goods 消费用品	Usage range 使用类别 A 类	Usage range 使用类别 B 类	Usage range 使用类别 C 类	
Automotive 车用面料			x	Seat fabric - usage range B 座椅面料 – B 类
Baby wear and textile articles (0 – 3 years) 婴儿用纺织品(0-3 岁)	x			
Backpack 背包			x	Shoulder straps, harness and backrest that have contact with the skin must be usage range A 与皮肤接触的吊带、背带和护垫必须是 A 类
Bed linen 床单	x			
Bike shorts 运动短裤	x			
Blouse 上衣		x		
Bra 文胸	x			
Carpet 地毯		x		
Cleaning cloth 清洁布		x		
Curtain 窗帘			x	
Dress 洋装		x		
Furnishing fabric 装饰面料		x		e.g. seat cover 如: 椅套
Geo textiles 土工布			x	e.g. building-/construction textiles, erosion protective textiles 如: 建筑用布、防腐保护用布
Gloves/Mittens 手套	x			
Harness 护具保护带		x		
Headdress 头饰	x			
Hammock 吊床		x		
Jacket 夹克		x		
Leggings 打底裤	x			
Long sleeve t-shirt 长袖 T 恤	x			
Mosquito net 蚊帐			x	
Pants 长裤		x		
Pullover 套头衫		x		
Ropes & slings 绳索		x	x	Depends on use 视用途而定
Scarf 围巾	x			
Shirt 衬衫		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.

本文为英文编写，为便于理解翻译为中文。如中英文不一致时，以英文文本为准。

bluesign® system substances list 物质清单 (BSSL) | v10.0 | September 15, 2019

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Consumer goods 消费用品	Usage range 使用类别 A 类	Usage range 使用类别 B 类	Usage range 使用类别 C 类
Skirt 裙		x	
Sleeping bag 睡袋		x	Lining must be usage range A 衬里必须是 A 类
Sleeping mattress 床垫	x		
Socks 袜子	x		
Sport shirt 运动上衣	x		
Sweatshirt 运动衫		x	
Swim wear 游泳衣	x		
Tent 帐篷			x Tent floor must be usage range B 地帐必须是 B 类
Tie 领带		x	
Tights 紧身衣	x		
Towel 毛巾		x	
T-Shirt T-恤	x		
Underpants (long/short) 内裤 (长/短)	x		
Undershirt 贴身内衣	x		