

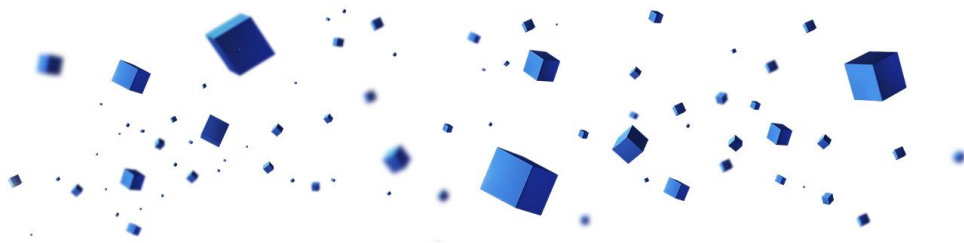
bluesign® system substances list (BSSL) bluesign® system 物质清单 (BSSL)

Consumer safety limits 消费者安全限值

修订日志 **CHANGES 2024**

Version 15.0, 01 July 2024 – compared to Version 14.0, 01 July 2023
15.0 版 | 2024 年 7 月 1 日 – 相较于 14.0 版 | 2023 年 7 月 1 日





Purpose 目的

This document provides an overview of the changes in BSSL version 15.0 compared to version 14.0. Changes are marked in red.

本文件概述了 BSSL 15.0 版对比 BSSL 14.0 版的变更。变更部分以红色标记。

Validity of BSSL 15.0 有效性

BSSL 15.0 comes into force on 01 July 2024.

It replaces the bluesign® system substances list (BSSL) version 14.0 from 01 July 2023.

BSSL 15.0 版于 2024 年 7 月 1 日起生效执行。

同时取代 2023 年 7 月 1 日发行的 bluesign® system 物质清单 (BSSL) 14.0 版。

For all bluesign® SYSTEM PARTNERS: Unless otherwise stated, the revised sections will be implemented by 01 July 2025 at the latest.

对于所有 bluesign® SYSTEM PARTNERS: 除非另有注明, 增改内容应不迟于 2025 年 7 月 1 日开始执行。

Consumer Safety Limits 使用者安全限值

| Chlorinated Benzenes and Toluenes 氯化代苯和氯化代甲苯 | | | | | | |
|----------------------------------------------|----------------------|-----------------------|--------------------|----------------------|------------|---------------------------|
| Chemical Name 化学物质名称 | CAS Number 化学品文摘号 | Sector of Use 适用范围 | Limit Type 限用类型 | Value 数值 A/B/C | Unit 单位 | Comment 备注 |
| Hexachlorobenzene 六氯苯 | 118-74-1 | All 全部 | Usage ban 禁用 | 0.5 | mg/kg | Limit is lowered. 降低限制 |

| Halogenated Biphenyls, halogenated Terphenyls and halogenated Naphthalenes 卤化代联苯, 卤化代三联苯和卤化代萘 | | | | | | |
|--------------------------------------------------------------------------------------------------|----------------------|-----------------------|--------------------|----------------------|------------|-----------------------------------|
| Chemical Name 化学物质名称 | CAS Number 化学品文摘号 | Sector of Use 适用范围 | Limit Type 限用类型 | Value 数值 A/B/C | Unit 单位 | Comment 备注 |
| Hexabromo biphenyl 六溴联苯 | 36355-01-8 | All 全部 | Usage ban 禁用 | 0.5 | mg/kg | Added individual limit. 增加单个限值 |

| Isocyanates 异氰酸酯 | | | | | | |
|--------------------------------------------------------------------|----------------------|-----------------------|--------------------|----------------------|------------|---------------------------------------------|
| Chemical Name 化学物质名称 | CAS Number 化学品文摘号 | Sector of Use 适用范围 | Limit Type 限用类型 | Value 数值 A/B/C | Unit 单位 | Comment 备注 |
| 2,4,6-Trimethyl-1,3-phenylene diisocyanate 2,4,6-三甲基-1,3-苯二异氰酸酯 | 16959-10-7 | All 全部 | Usage ban 禁用 | 1 | mg/kg | New substance. Group limit. 新增物质. 适用组别限值 |

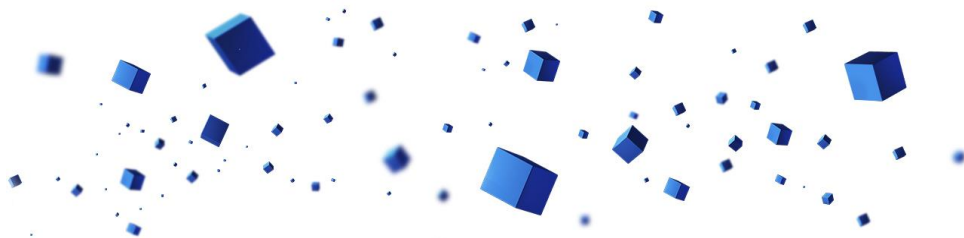
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bluesign® system substances list (BSSL) - Consumer safety limits | Version 15.0 | 01 July 2024 - CHANGES compared to the previous version

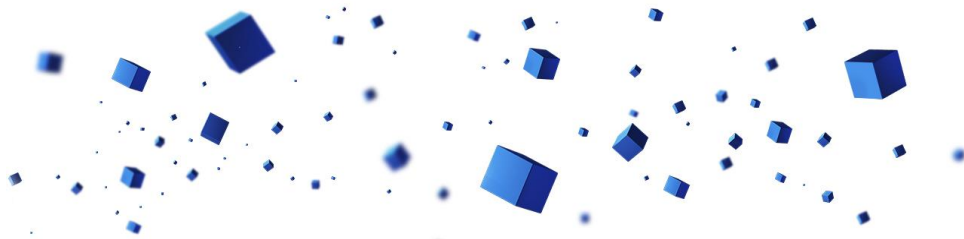
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| Metals 金属 | | | | | | |
|---------------------------------|----------------------|--------------------------------|--------------------|----------------------|------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Chemical Name 化学物质名称 | CAS Number 化学品文摘号 | Sector of Use 适用范围 | Limit Type 限用类型 | Value 数值 A/B/C | Unit 单位 | Comment 备注 |
| Silver – as content 银 - 作为含量 | 7440-22-4 | Textile 纺织 Leather 皮革 | Limitation 限用 | | | <p>Approval for silver components with biocidal activity only granted if proper risk assessment shows there is no harm for the people and the environment. 只有在适当的风险评估表明对人类和环境无害的情况下，才批准具有杀生物活性的银成分</p> <p>Approval only possible if allowed and/or not forbidden in the EU (BPR on ECHA website). 只有在欧盟允许和/或不禁止的情况下才有可能获得批准 (ECHA 网站上的 BPR)。</p> <p>e.g. use of nano silver is not allowed in the EU for textile application. 例如，欧盟不允许将纳米银用于纺织品应用。</p> |

| Other Chemical Substances 其他化学物质 | | | | | | |
|---------------------------------------------|----------------------|-----------------------|--------------------|----------------------|------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Chemical Name 化学物质名称 | CAS Number 化学品文摘号 | Sector of Use 适用范围 | Limit Type 限用类型 | Value 数值 A/B/C | Unit 单位 | Comment 备注 |
| Azodicarbonamide (ADCA) 偶氮二甲酰胺 (ADCA) | 123-77-3 | All 全部 | Usage ban 禁用 | 100/200/200 | mg/kg | <p>Not allowed for bluesign® APPROVED chemicals, however the usage on-site is tolerated, if no feasible alternative for foaming is available. 禁止用于 bluesign® APPROVED 的化学品，但如果没有任何可行的发泡替代品，则可暂许现场使用</p> <p>Proof that consumer safety limit for ADCA is kept via finished article testing (e.g. footwear sole). 需通过制品成品测试 (例如鞋底) 以证明符合消费者安全限值要求。</p> |



Other Chemical Substances 其他化学物质

| Chemical Name 化学物质名称 | CAS Number 化学品文摘号 | Sector of Use 适用范围 | Limit Type 限用类型 | Value 数值 A/B/C | Unit 单位 | Comment 备注 |
|---------------------------|-------------------------|-----------------------|--------------------|----------------------|------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Azobenzene 偶氮苯 | 103-33-3, 17082-12-1 | All 全部 | Usage ban 禁用 | 1.0 | mg/kg | Change limit type from Monitoring to usage ban. 将限制类型从监控变为禁用 Second CAS number added. 增加另一个 CAS 号 |
| Bisphenol F 双酚 F | 620-92-8 | All 全部 | Limitation 限用 | 100 | mg/kg | Changed limit type from Usage ban to Limitation. 将限制类型从禁用变为限用 Added specific limit 500 mg/kg for leather tanning and textile aftertreatment. 增加了皮革鞣制和纺织品后处理的特定限值 500 mg/kg |
| ε-Caprolactam 己内酰胺 | 105-60-2 | All 全部 | Monitoring 监控 | 100/1000/ 1000 | mg/kg | Change limit type from Limitation to Monitoring. 将限制类型从限用变为监控 |
| Cyclohexanone 环己酮 | 108-94-1 | All 全部 | Limitation 限用 | 10 | mg/kg | Applied same <u>exception</u> as for DMF. 与 DMF 的例外情况相同 Exceptions: Specific limits are defined for articles produced by lamination and fiber manufacturing - A/B/C = 50 mg/kg or by solvent coating, A/B/C = 50/50/250 mg/kg. 例外情况:适用于贴合以及纤维制造生产的制品限值 - A/B/C = 50 mg/kg 或适用于溶剂涂层生产的制品限值 A/B/C = 50/50/250 mg/kg |
| Colophony 松香 | 8050-09-7 8052-10-6 | All 全部 | Limitation 限用 | 10/10/100 | mg/kg | Limit increased for C value. C 值的限值增加。 Amended comment: Analysed as abietic acid. 修改后备注: 分析为松香酸 |
| 2-Butyne-1,4-diol 丁炔二醇 | 110-65-6 | All 全部 | Monitoring 监控 | 1.0 | mg/kg | Deleted comment "Limitation". 已删除限用 |

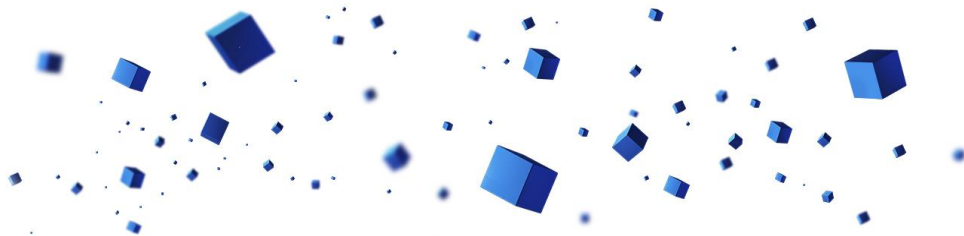
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bluesign® system substances list (BSSL) - Consumer safety limits | Version 15.0 | 01 July 2024 - CHANGES compared to the previous version

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| Pesticides 杀虫剂 | | | | | | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|-----------------------|--------------------|----------------------|------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| Chemical Name 化学物质名称 | CAS Number 化学品文摘号 | Sector of Use 适用范围 | Limit Type 限用类型 | Value 数值 A/B/C | Unit 单位 | Comment 备注 |
| Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1.alpha.,2.alpha.,3.beta.,4.alpha.,5.beta.,6.beta.)- 环己烷, 1,2,3,4,5,6-六氯-, (1.α.,2.α.,3.β.,4.α.,5.β.,6.β.)- | 319-84-6 | All 全部 | Limitation 限用 | 0.5 | mg/kg | New substances added to the group of Hexachlorocyclohexane in the Annex. 附录中新增六氯环己烷组别物质 Group limit valid for all pesticides. 所有杀虫剂适用组别限值 |
| Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1.alpha.,2.beta.,3.alpha.,4.beta.,5.alpha.,6.beta.)- 环己烷, 1,2,3,4,5,6-六氯-, (1.α.,2.β.,3.α.,4.β.,5.α.,6.β.)- | 319-85-7 | All 全部 | Limitation 限用 | 0.5 | mg/kg | |
| Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1.alpha.,2.alpha.,3.alpha.,4.beta.,5.alpha.,6.beta.)- 环己烷, 1,2,3,4,5,6-六氯-, (1.α.,2.α.,3.α.,4.β.,5.α.,6.β.)- | 319-86-8 | All 全部 | Limitation 限用 | 0.5 | mg/kg | |

| PFAS (Poly- and perfluoroalkyl substances) PFAS (全氟和多氟烷基物质) | | | | | | |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|-----------------------|--------------------|----------------------|------------|-----------------------------------------------------------------------------------------------------------------------|
| Chemical Name 化学物质名称 | CAS Number 化学品文摘号 | Sector of Use 适用范围 | Limit Type 限用类型 | Value 数值 A/B/C | Unit 单位 | Comment 备注 |
| Potassium perfluoroheptanoate 全氟庚酸钾 | 21049-36-5 | All 全部 | Usage ban 禁用 | 50 | µg/kg | New substance. 新增物质 Group limit of Perfluoroheptanoic acid and its salts. Listed in Annex. 全氟庚酸和其盐组别限值列示于附录中 |
| Reaction mass of 2,2,3,3,5,5,6,6-octafluoro-4-(1,1,1,2,3,3,3-heptafluoropropan-2-yl)morpholine and 2,2,3,3,5,5,6,6-octafluoro-4-(heptafluoropropyl)morpholine 2,2,3,3,5,5,6,6-八氟-4-(1,1,1,2,3,3,3-七氟丙-2-基)吗啉和 2,2,3,3,5,5,6,6-八 | (EC No. 473-390-7) | All 全部 | Usage ban 禁用 | 100 | µg/kg | New substance. 新增物质 |

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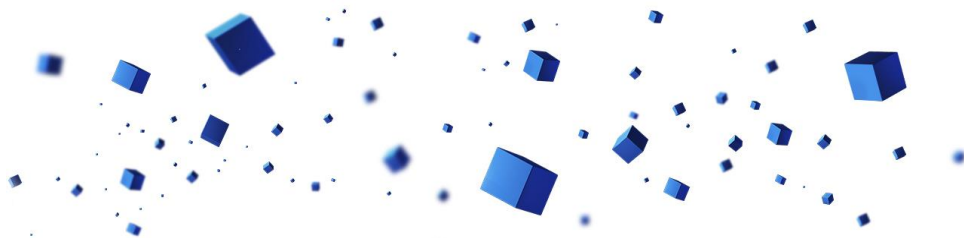
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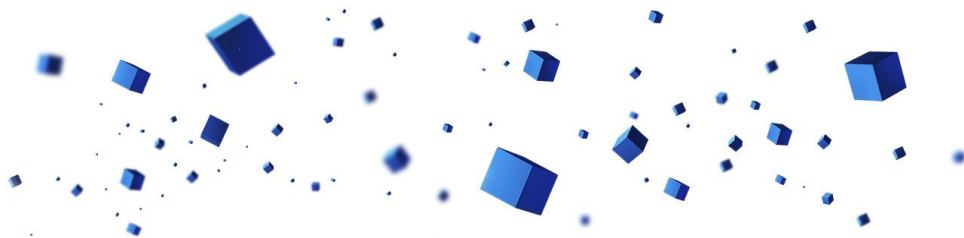


| | | | | | | |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|--------|--------------|----|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 氟-4-(七氟丙基)吗啉的反应物 | | | | | | |
| Silver(1+) perfluorooctanoate 全氟辛酸银(1+) | 335-93-3 | All 全部 | Usage ban 禁用 | 25 | µg/kg | New substance listed in Annex. 新增物质列示于附录中。 Group limit of Perfluorooctanoic acid and its salts. 全氟辛酸及其盐组别限值 |
| Tridecafluoro-N-methylhexanesulphonamide 十三氟-N-甲基己磺酰胺 | 68259-15-4 | All 全部 | Usage ban 禁用 | 20 | µg/kg | New substance listed in Annex. 新增物质列示于附录中。 Group limit of Perfluorohexane sulfonic acid and its derivatives. 全氟烷基磺酸及其衍生物组别限制 |
| 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-Heptadecafluoro-1-decanesulfonic acid 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-十七氟-1-癸烷磺酸 | 39108-34-4 | All 全部 | Usage ban 禁用 | 20 | µg/kg | New substances listed in Annex. 新增物质列示于附录中。 Group limit of Perfluoroalkyl sulfonic acid and its salts - F(CF ₂) _n [n>8]. 全氟烷基磺酸及其盐 F(CF ₂) _n [n>8] 组别限制 |
| 1-Dodecanesulfonic acid, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12-heneicosafuoro-1-十二烷磺酸, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12-二十一氟- | 120226-60-0 | All 全部 | Usage ban 禁用 | 20 | µg/kg | |
| 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-Heptadecafluorodecanoic acid 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-十七氟癸酸 | 27854-31-5 | All 全部 | Usage ban 禁用 | 25 | µg/kg | |
| 2,2,3,4,4,5,5,6,6,7,8,8,8-Tridecafluoro-3,7-bis(trifluoromethyl)octanoic acid 2,2,3,4,4,5,5,6,6,7,8,8,8-十三氟-3,7-双(三氟甲基)辛酸 | 172155-07-6 | All 全部 | Usage ban 禁用 | 25 | µg/kg | New substances listed in Annex. 新增物质列示于附录中。 Group limit of Perfluorocarboxylic acids (C9-C14) and its salts. 全氟羧酸及其盐组别限制 |
| 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,11-Heptadecafluoroundecanoic acid 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,11-十七氟十一烷酸 | 34598-33-9 | All 全部 | Usage ban 禁用 | 25 | µg/kg | |



| PFAS (Poly- and perfluoroalkyl substances) PFAS (全氟和多氟烷基物质) | | | | | | |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|-----------------------|--------------------|----------------------|------------|----------------------------------------------------------------------------------------------------------------------------------------------|
| Chemical Name 化学物质名称 | CAS Number 化学品文摘号 | Sector of Use 适用范围 | Limit Type 限用类型 | Value 数值 A/B/C | Unit 单位 | Comment 备注 |
| 2-Propenoic acid, 3,3,4,4,5,5,6,6,7,7,8,8,9,9, 10,10,10-heptade cafluorodecyl ester 2-丙烯酸 ,3,3,4,4,5,5,6,6,7,7,8,8,9,9, 10,10,10-十七氟癸酯 | 27905-45-9 | All 全部 | Usage ban 禁用 | 1000 | µg/kg | New substances listed in Annex. 新增物质列示于附录中。 Group limit of Perfluorooctanoic acid related substances. 全氟辛酸相关物质组别限值 |
| 2-Propenoic acid, 2- methyl-, 3,3,4,4,5,5,6,6, 7,7,8,8,9,9,10,10,10- heptadecafluorodecyl ester 2-丙烯酸,2-甲基-, 3,3,4,4,5,5,6,6,7,7,8,8,9,9, 10,10,10-十七氟癸酯 | 1996-88-9 | All 全部 | Usage ban 禁用 | 1000 | µg/kg | |
| 2-Propenoic acid, 3,3,4,4,5,5,6,6,7,7,8,8,9,9, 10,10,11,11,12,12,12- heneicosafuorododecyl ester 2-丙烯酸 ,3,3,4,4,5,5,6,6,7,7,8,8,9,9, 10,10,11,11,12,12,12-二 十一氟十二烷基酯 | 17741-60-5 | All 全部 | Usage ban 禁用 | 260 | µg/kg | New substances listed in Annex. 新增物质列于附录中 Group limit of Perfluorocarboxylic acid (C9-C14) related substances. 全氟羧酸和相关物质组别限值 |
| 2-Propenoic acid, 2- methyl-, 3,3,4,4,5,5,6,6, 7,7,8,8,9,9,10,10,11,11,12, 12,12-heneicosa fluorododecyl ester 2-丙烯酸,2-甲基- ,3,3,4,4,5,5,6,6,7,7,8,8,9,9, 10,10,11,11,12,12,12-二 十一氟十二烷基酯 | 2144-54-9 | All 全部 | Usage ban 禁用 | 260 | µg/kg | |
| Perfluorododecylethanol 全氟十二烷基乙醇 | 39239-77-5 | All 全部 | Usage ban 禁用 | 260 | µg/kg | |
| Dodecane, 1,1,1,2,2, 3,3,4,4,5,5,6,6,7,7,8,8,9,9, 10,10-heneicosafuoro- 12-iodo- 十二烷, 1,1,1,2,2,3,3,4,4,5,5,6,6,7, 7,8,8,9,9,10,10-二十二碳 氟-12-碘- | 2043-54-1 | All 全部 | Usage ban 禁用 | 260 | µg/kg | |
| Tetradecane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7, 7,8,8,9,9,10,10-二十二碳 氟-12-碘- | 30046-31-2 | All 全部 | Usage ban 禁用 | 260 | µg/kg | |

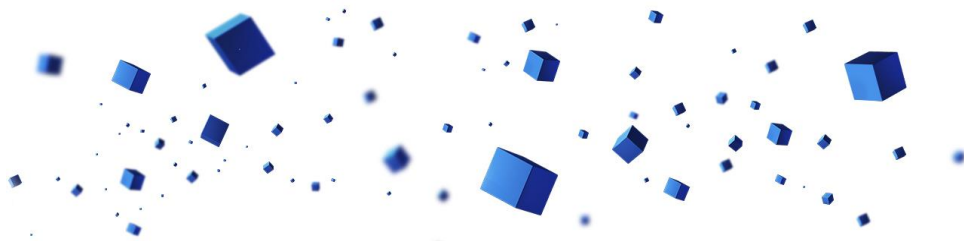
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|---------------------------------------------------------------------------------------------------------------------------|--|--|--|--|--|
| 7,8,8,9,9,10,10,11,11,12,12-pentacosafluoro-14-iodo-十四烷, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12-五氟-14-碘- | | | | | |
|---------------------------------------------------------------------------------------------------------------------------|--|--|--|--|--|

| Tin-organic Compounds 有机锡化合物 | | | | | | |
|------------------------------------------|----------------------|-----------------------|--------------------|----------------------|------------|---------------------------|
| Chemical Name 化学物质名称 | CAS Number 化学品文摘号 | Sector of Use 适用范围 | Limit Type 限用类型 | Value 数值 A/B/C | Unit 单位 | Comment 备注 |
| Monooctyltin compounds 单辛基锡化合物 (MOT) | Several 多个 | All 全部 | Usage ban 禁用 | 1.0 | mg/kg | Limit is lowered. 降低限值 |
| Diphenyltin compounds 二苯锡化合物 (DPHT) | Several 多个 | All 全部 | Usage ban 禁用 | 1.0 | mg/kg | |
| Monomethyltin compounds 单甲基锡化合物 (MMT) | Several 多个 | All 全部 | Usage ban 禁用 | 1.0 | mg/kg | |

| UV stabilizers 紫外线稳定剂 | | | | | | |
|-------------------------|----------------------|-----------------------|--------------------|----------------------|------------|---------------------------------------------------------------------------------------------|
| Chemical Name 化学物质名称 | CAS Number 化学品文摘号 | Sector of Use 适用范围 | Limit Type 限用类型 | Value 数值 A/B/C | Unit 单位 | Comment 备注 |
| UV-326 | 3896-11-5 | All 全部 | Usage ban 禁用 | 1000 | mg/kg | New substances. Articles need to comply latest 01 July 2026. 新增物质。制品必须最晚在2026年7月1日之前符合要求 |
| UV-329 | 3147-75-9 | All 全部 | Usage ban 禁用 | 1000 | mg/kg | |



Revised test methods 测试方法修订

| Substances 化学物质 | CAS Number 化学品文摘号 | Revision 修订 | Comment 备注 |
|-----------------------|-------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|
| Colophony 松香 | 8050-09-7 8052-10-6 | MtBE extraction followed by LC-MS 甲基叔丁基醚萃取后进行 LC-MS | Changed test method. 更改测试方法。 |
| Bisphenol A 双酚 A | 80-05-7 | Methanol or Methanol: Tetrahydrofuran (1:1) 甲醇或甲醇: 四氢呋喃 (1:1) Extraction followed by LC-MS, LC-MS/MS or LC-PDA. 萃取后进行 LC-MS, LC-MS/MS 或 LC-PDA. | Changed test method. 更改测试方法。 |
| Bisphenol AF 双酚 AF | 1478-61-1 | | |
| Bisphenol B 双酚 B | 77-40-7 | | |
| Bisphenol F 双酚 F | 620-92-8 | | |
| Bisphenol S 双酚 S | 80-09-1 | | |
| PFAS 全氟和多氟烷基物质 | All listed substances 所有列出的物质 | EN ISO 23702-1 (2023) | Valid for Leather 适用于皮革 |
| | | CEN/TS 15968 (2010) prEN 17681-1:2023 | Valid for Textile, Down/ feather, Polymer and metal parts 适用于纺织品、羽绒/羽毛 、聚合物和金属部件 |

Major changes in other chapters of the BSSL

BSSL 其他章节的主要变化

Added subchapter '5.7 PFAS phase-out'. Important amendment in that chapter:

增加子章节“5.7 PFAS 淘汰计划”。该章节的重要修订：

- Certain dyestuff with a CF3 group that formally fall under the PFAS definition and that were still listed in the bluesign® FINDER is subject to fast-track phase out. By 1st of July 2024 affected chemical products are removed from the bluesign® FINDER

在 bluesign® FINDER 中含有 CF3 基团且符合 PFAS 定义的染料将会加速淘汰。至 2024 年 7 月 1 日，所有受影响的化学产品已从 bluesign® FINDER 上删除。
- Residual amounts of CF3-group containing dyestuff formulations which article manufacturers may still have in stock by 1st of July 2024 may be used up for producing bluesign® APPROVED articles. Latest by 1st of January 2026 articles and products that contain dyestuff with CF3 groups shall not be put on the market labelled as bluesign® APPROVED or bluesign® PRODUCT.

截至 2024 年 7 月 1 日，制造商可能在库存中剩余含有 CF3 基团的染料配方可用于生产 bluesign® APPROVED 制品。最迟自 2026 年 1 月 1 日起，含有 CH3 基团的染料产品及制品不得在市场上标示为 bluesign® APPROVED 或 bluesign® PRODUCT。