

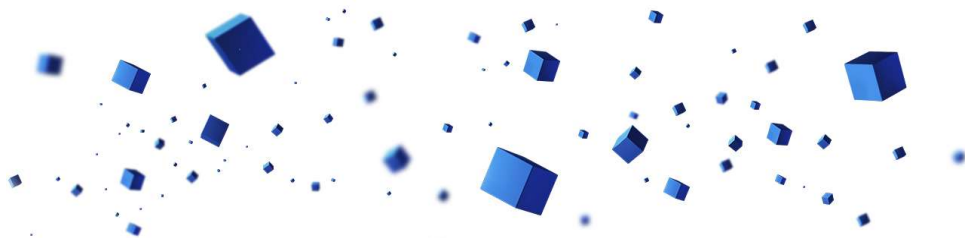
# bluesign® Restricted Substances List (RSL)

Consumer safety limits

## CHANGES 2024

Version 15.0, 01 July 2024 – compared to Version 14.0, 01 July 2023





## Purpose

This document provides an overview of the changes in RSL version 14.0 compared to version 13.0. Changes are marked in red.

## Validity of RSL 15.0

RSL 15.0 comes into force on 01 July 2024.

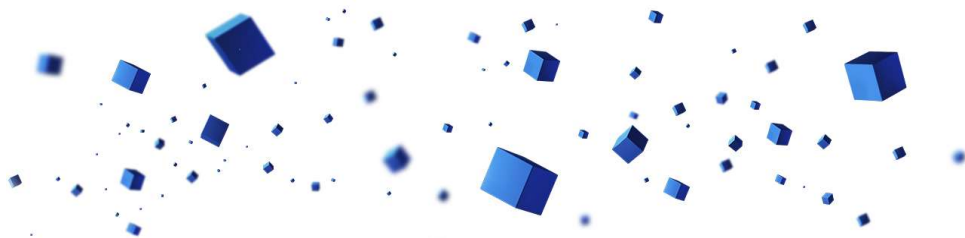
It replaces the bluesign® Restricted Substances List (RSL) version 14.0 from 01 July 2023.

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

## Consumer Safety Limits

| Isocyanates                                |            |               |            |             |       |                             |
|--|------------|---------------|------------|-------------|-------|-----------------------------|
| Chemical Name                              | CAS Number | Sector of Use | Limit Type | Value A/B/C | Unit  | Comment                     |
| 2,4,6-Trimethyl-1,3-phenylene diisocyanate | 16959-10-7 | All           | Usage ban  | 1           | mg/kg | New substance. Group limit. |

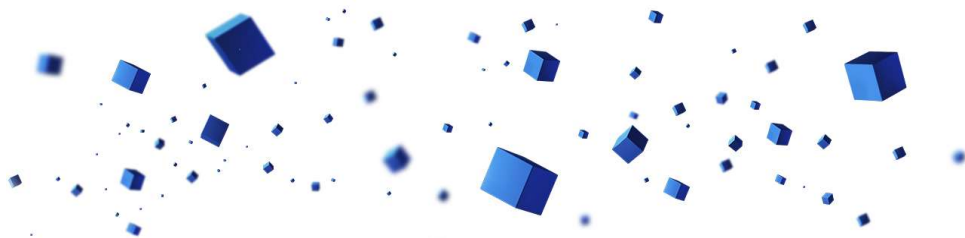
| Other Chemical Substances |            |               |            |             |       |   |
|---------------------------|------------|---------------|------------|-------------|-------|---|
| Chemical Name             | CAS Number | Sector of Use | Limit Type | Value A/B/C | Unit  | Comment   |
| Bisphenol F               | 620-92-8   | All           | Limitation | 100         | mg/kg | <p>Changed limit type from Usage ban to Limitation.</p> <p>Added specific limit 500 mg/kg for leather tanning and textile aftertreatment.</p>   |
| Azodicarbonamide (ADCA)   | 123-77-3   | All           | Usage ban  | 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.</p> <p>Proof that consumer safety limit for ADCA is kept via finished article testing (e.g. footwear sole).</p> |



| PFAS (Poly- and perfluoroalkyl substances)  |                  |               |            |             |       |   |
|---|------------------|---------------|------------|-------------|-------|---|
| Chemical Name   | CAS Number       | Sector of Use | Limit Type | Value A/B/C | Unit  | Comment   |
| Potassium perfluoroheptanoate   | 21049-36-5       | All           | Usage ban  | 50          | µg/kg | New substance listed in Annex.<br><br>Group limit of Perfluoroheptanoic acid and its salts. |
| 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 | EC No. 473-390-7 | All           | Usage ban  | 100         | µg/kg | New substance.  |

| Tin-organic Compounds   |            |               |            |             |       |                   |
|-------------------------|------------|---------------|------------|-------------|-------|-------------------|
| Chemical Name           | CAS Number | Sector of Use | Limit Type | Value A/B/C | Unit  | Comment           |
| Monooctyltin compounds  | Several    | All           | Usage ban  | 1.0         | mg/kg | Limit is lowered. |
| Diphenyltin compounds   | Several    | All           | Usage ban  | 1.0         | mg/kg |                   |
| Monomethyltin compounds | Several    | All           | Usage ban  | 1.0         | mg/kg |                   |

| UV stabilizers |            |               |            |             |       |                 |
|----------------|------------|---------------|------------|-------------|-------|-----------------|
| Chemical Name  | CAS Number | Sector of Use | Limit Type | Value A/B/C | Unit  | Comment         |
| UV-326         | 3896-11-5  | All           | Usage ban  | 1000        | mg/kg | New substances. |
| UV-329         | 3147-75-9  | All           | Usage ban  | 1000        | mg/kg |                 |



## Revised test methods

| Substances   | CAS Number            | Revision  | Comment   |
|--------------|-----------------------|---|---|
| Bisphenol A  | 80-05-7               | Methanol or Methanol: Tetrahydrofuran (1:1) Extraction followed by LC-MS, LC-MS/MS or LC-PDA. | Changed test method.                                      |
| Bisphenol AF | 1478-61-1             |   |   |
| Bisphenol F  | 620-92-8              |   |   |
| Bisphenol S  | 80-09-1               |   |   |
| PFAS         | All listed substances | EN ISO 23702-1 (2023)   | Valid for Leather.  |
|              |                       | CEN/TS 15968 (2010)<br>prEN 17681-1:2023  | Valid for Textile, Down/feather, Polymer and Metal parts. |

## Major changes in other chapters of the RSL

Chapter '3 Scope and Validity' changed to chapter '4 Scope and Validity'

Chapter '4 Testing methods' changed to chapter '3 Testing methods'

Chapter '3.3 Articles from recycled material' changed to chapter '5.6. Articles from recycled material'

Chapter '3.4 PFAS chemistry' changed to '5.7 PFAS phase-out'. Important amendment in that chapter '5.7 PFAS phase-out':

- Certain dyestuff with a CF<sub>3</sub>-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 1<sup>st</sup> of July 2024 affected chemical products are removed from the bluesign® FINDER
- Residual amounts of CF<sub>3</sub>-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 CF<sub>3</sub>-groups shall not be put on the market labelled as bluesign® APPROVED or bluesign® PRODUCT.

Chapter '5 Restricted parameters and substance' renamed to '5. Consumer Safety Limits'

Chapter '5.1 Restricted parameters' and included table is replaced by chapters '5.1. pH-Value', '5.2. Odor', '5.3. Sensitizing Disperse Dyes', '5.4. Textiles Dyed with Disperse or Metal Complex Dyes' and '5.5. Color Fastness to Saliva and Perspiration'

Chapter '5.8. Restrictions and Bans for Chemical Substances' added