

bluesign Restricted Substances List (RSL)

Consumer safety limits

CHANGES 2026

Version 17.0, 01 July 2026 – compared to Version 16.0, 01 July 2025

Purpose

This document provides an overview of the changes in RSL version 17.0 compared to version 16.0

Validity of RSL v17.0

RSL 17.0 comes into force on 01 July 2026.

It replaces the bluesign Restricted Substances List (RSL) version 16.0 from 01 July 2025.

For all bluesign System Partners: Unless otherwise stated, the revised sections will be implemented by 01 July 2028 at the latest.

General text changes

The text section of the RSL undergoes an annual review, and consequently, the wording is amended as needed. This document outlines only the key changes.

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- Added Chapter 5.7 containing specific limits for jewellery has been introduced, reflecting the AFIRM RSL limits for jewellery.
- PFAS Phase-out chapter has been extended, and testing approach was amended.
- Added Chapter 5.9 explaining Non-PFAS Dyestuff containing fluorine.

Threshold limit values

Aldehydes

Name	CAS No.	Sector of Use	Limit Type	Value A/B/C	Comment
Formaldehyde	50-00-0	All	Limitation	15/75/75 mg/kg	Limit for usage range C has been lowered.

Arylamines

Name	CAS No.	Sector of Use	Limit Type	Value A/B/C	Comment
2-Naphthylamine and its salts					
2-naphthylammonium chloride	612-52-2	All	Usage ban	20 mg/kg group limit	New substance

Chlorinated paraffins, all chain lengths

Name	CAS No.	Sector of Use	Limit Type	Value A/B/C	Comment
Paraffin, C14-C17, chlorinated (MCCP)					
Paraffin, C14-C17, chlorinated - (MCCP)	85535-85-9	All	Usage ban	100 mg/kg	The group limit is increased.
Paraffin, C18-C28, chlorinated (LCCP)					
Paraffin, C18-C28, chlorinated - (LCCP)	85535-86-0	All	Usage ban	100 mg/kg	The group limit is increased.
Paraffin wax, chlorinated	63449-39-8				
Paraffin, C10-C13, chlorinated (SCCP)					
Paraffin, C10-C13, chlorinated - (SCCP)	85535-84-8	All	Usage ban	100 mg/kg	The group limit is increased.

Chlorinated Phenols

Name	CAS No.	Sector of Use	Limit Type	Value A/B/C	Comment
Trichlorophenol, all isomers	-	All	Usage ban	0.2 / 0.5 / 0.5 mg/kg	Limit for usage range A was increased.

Colorants

Name	CAS No.	Sector of Use	Limit Type	Value A/B/C	Comment
Basic Green 4 - (Malachite Green)					
Malachite green acetate	41272-40-6	All	Usage ban	20 mg/kg	New substance. Group limit for all members of Basic Green 4.
Colorants banned for other reasons					
Reactive Brown 51	No CAS EC No: 466-490-7	All	Usage ban	1000 mg/kg	New substance

Flame Retardants

Name	CAS No.	Sector of Use	Limit Type	Value A/B/C	Comment
Flame retardants	Several	All	Usage ban	1000 mg/kg	Limit applies to total individual chlorine and bromine content. If detected above the limit, follow-up investigation of the flame retardant source shall be conducted via targeted testing and supplier verification.
Dechlorane Plus - covering any of its individual anti- and syn-isomers or any combination thereof					
Dechlorane Plus	13560-89-9	All	Usage ban	1 mg/kg	New group
syn-Dechlorane plus	135821-03-3	All	Usage ban		
anti-Dechlorane plus	135821-74-8	All	Usage ban		
Polybrominated Biphenyls					
Polybrominated Biphenyls	59536-65-1	All	Usage ban	5 mg/kg	Change of allocation of all Polybrominated Biphenyls from Halogenated Biphenyls, halogenated Terphenyls and halogenated Naphthalenes to Flame Retardants. No change in limits.
4-bromobiphenyl	92-66-0	All	Usage ban	5 mg/kg group limit of all PBBs	New substances in already restricted group.
3-bromobiphenyl	2113-57-7				
4,4'-dibromobiphenyl	92-86-4				
Polybrominated diphenyl ethers					
Polybrominated diphenyl ethers	-	All	Usage ban	10 mg/kg group limit 200 mg/kg group limit for recovered materials	Add group limit for all PBDE.

Isocyanates

Name	CAS No.	Sector of Use	Limit Type	Value A/B/C	Comment
o-Toluidine diisocyanate (TODI)	91-97-4	All	Limitation	1 mg/kg group limit	New substances
2,4,6-Triisopropyl-m-phenylene diisocyanate	2162-73-4				

Metals

Name	CAS No.	Sector of Use	Limit Type	Value A/B/C	Comment
Mercury, its salts and compounds					
Mercury – as content	7439-97-6	All	Usage ban	0.5 mg/kg (total content)	Add total content limit.
		Metal parts	Usage ban	0.02 mg/kg (extractable content)	Lower extractable limit for metal parts.
Antimony, its salts and compounds					
Antimony - as content	7440-36-0	Down feather Polymer parts Metal parts Leather Textiles	Limitation	30 mg/kg	Align the limit for extractable metal content for all sectors of use (except from fibers/yarns).
Nickel, its salts and compounds					
Nickel - as content	7440-02-0	Polymer parts	Limitation	1.0 mg/kg	Limit value 1.0 mg/kg is valid for all textiles and non-metalized polymer parts.
		Metal parts	Usage ban	0.5 g/cm²/week	The comment is added: This limit applies to any article including metalized polymers with a metalized surface, including items that are plated, metal-coated, or otherwise treated to create a metallic layer.
Chromium, its salts and compounds - except Chromium VI, its salts and compounds					
Chromium – as content	7440-47-3	Down feather Polymer parts Metal parts	Limitation	0.5 mg/kg	Extractable content lowered.
		Leather	Limitation	0.5 mg/kg	Added limit for leather (that is not tanned with chromium) dyed with chromium containing metal complex dyes A: 1.0 // B: 2.0 // C: 2.0 mg/kg.
Selenium, its salts and compounds					
Selenium - as content	7782-49-2	Textiles	Limitation	100 mg/kg	Limit for textiles is lowered.

Other Chemical Substances

Name	CAS No.	Sector of Use	Limit Type	Value A/B/C	Comment
Bisphenol F	620-92-8	All	Usage ban	100 mg/kg general limit 200 mg/kg specific limit for textile aftertreatment 500 mg/kg specific limit for leather tanning	Specific limit for textile aftertreatment has been lowered from 500 mg/kg to 200 mg/kg.
2,4,6-tri-tert-butyl phenol	732-26-3	All	Usage ban	5/30/30 mg/kg	New substance
Pentachlorothiophenol	133-49-3	All	Usage ban	200/1000/1000 mg/kg	New substance
Phenol, isopropylated, phosphate (PIP (3:1))	68937-41-7	All	Usage ban	200 mg/kg	New substance
Nitrobenzene	98-95-3	All	Usage ban	5/30/30 mg/kg	New substance
4-Nitrobiphenyl	92-93-3	All	Usage ban	20 mg/kg	New substance
Vinylcyclohexene diepoxide	106-87-6	All	Usage ban	50/300/300 mg/kg	New substance
Siloxanes					
Decamethyltetrasiloxane	141-62-8	All	Usage ban	500 mg/kg	New substance
Methyltris(trimethylsiloxy)silane	17928-28-8	All	Usage ban	500 mg/kg	New substance

Polyaromatic hydrocarbons (PAHs)

Name	CAS No.	Sector of Use	Limit Type	Value A/B/C	Comment
5-Methylchrysene	3697-24-3	All	Usage ban	10 mg/kg group limit	New substance

Plasticizers

Name	CAS No.	Sector of Use	Limit Type	Value A/B/C	Comment
Phthalic acid esters	-	All	Usage ban	250 mg/kg	Group limit for all phthalates introduced. Individual limit for all members changed from 50 mg/kg to 250 mg/kg.

Pesticides

Name	CAS No.	Sector of Use	Limit Type	Value A/B/C	Comment
Methoxychlor and its isomers	72-43-5 30667-99-3 76733-77-2 255065-25-9 255065-26-0 59424-81-6 1348358-72-4	All	Limitation	0.01 mg/kg	Limit for Methoxychlor and its isomers has been lowered. Group limit for all pesticides remains 0.5 mg/kg.

PFAS (Poly- and perfluoroalkyl substances)

Numerous regulatory actions concerning PFAS have been recently introduced. Based on the developments, we have decided to revise both the structure and limits for the entire group of these chemicals.

The total fluorine content limit of 50 mg/kg remains unchanged valid for all PFAS and includes 3 subgroups: PFAS polymers, PFAS dyes (group limit: 250 ppb), and other PFAS (group limit: 250 ppb). Individual PFAS substances, except for polymers, are additionally subject to a single limit of 25 ppb. Testing recommendation updates are described in the Testing Methods Recommendation Changes at the end of the document. Due to the large number of PFAS substances, it is not feasible to cover them all; therefore, RSL provides selected examples.

Name	CAS No.	Sector of Use	Limit Type	Value A/B/C	Comment
PFAS Polymers	-	All	Usage ban	50 mg/kg (total fluorine)	Total fluorine limit applies for polymers. New PFAS subgroup introduced. New substances included in the group.
PFAS Dyes	-	All	Usage ban	250 µg/kg group limit 25 µg/kg individual limit	New PFAS subgroup introduced. New substances included in the group.
PFAS other than dyes and polymers	-	All	Usage ban	250 µg/kg group limit 25 µg/kg individual limit	New substances included in the group. Group and individual limit introduced for all members.

Tin-organic Compounds

Name	CAS No.	Sector of Use	Limit Type	Value A/B/C	Comment
Dibutyltin compounds (DBT)					
Dibutyltin hydrogen borate	75113-37-0	All	Usage ban	1 mg/kg group limit	New substance

Testing Methods Recommendation Changes

Name	CAS No.	Old testing recommendation	New testing recommendation	Sector of Use
PFAS – total fluorine	-	EN 14582 ASTM D7359	EN ISO 20999 (2026) ASTM D7359 EN 17813 (2023)	All
PFAS other than polymers and dyes	-	EN ISO 23702-1 (2023)	EN 17681-1 (2025)	Leather
		EN 17681-1 (2025)	EN ISO 23702-1:2023 using THF extraction followed by methanol precipitation (1:1)	Polymer parts
Barium	7440-39-3	EN 71-3 (2019) // Acidic solution migration simulating gastric juices DIN EN ISO 17294-2 (2017) DIN EN ISO 11885 (2009)	EN ISO 17072-1 (2019) // Acidic sweat solution	Leather
			DIN EN 16711-2 (2016)	All others
Benzyl chloride	100-44-7	GC-MS // Extraction with Dichloromethane	EN 17137 (2024) with GC-MS confirmation at low injection temperature and/or LC-DAD confirmation.	All

Name	CAS No.	Old testing recommendation	New testing recommendation	Sector of Use
Arylamines	-	EN ISO 17234-1 (2020)	ISO 17234-1 (2024)	Leather
Bis(2-ethylhexyl) tetrabromophthalate	26040-51-7	EN ISO 17881-2 (2016)	EN ISO 17881-1 (2016)	All
Polychlorinated Biphenyls	1336-36-3	ISO/TR 17881-3 (2018)	GC-MS // Solvent Extraction	All
Polychlorinated Terphenyls	61788-33-8	ISO/TR 17881-3 (2018)	GC-MS // Solvent Extraction	All
Polychlorinated Naphthalenes	-	ISO/TR 17881-3 (2018)	GC-MS // Solvent Extraction	All
Polybrominated Naphthalenes	-	ISO/TR 17881-3 (2018)	EN ISO 17881-1	All
Vinylidene chloride	75-35-4	EN 13130-6 (2004) // Headspace GC-ECD EN 13130-6 (2004) // Headspace GC-FID	EN 13130-6 (2004) // Headspace GC-MS EN 13130-6 (2004) // Headspace GC-ECD EN 13130-6 (2004) // Headspace GC-FID	All
Isoquinoline	119-65-3	LC-MS/MS // Extraction with Methanol	LC-MS/MS LC-MS LC-DAD DIN 54231:2022 In case of interferences confirmation is required by LC-MS or LC-MS/MS	All
Quinoline	91-22-5	LC-DAD // Extraction with Tetrahydrofuran LC-MS/MS // Extraction with Tetrahydrofuran LC-DAD // Extraction with Methanol		
Cresol, all isomers	1319-77-3	BVL B 82.02-8 (2001) // Extraction with Potassium hydroxide DIN EN ISO 17070 (2015) // Extraction with Potassium hydroxide	GC-MS // Headspace	All
Siloxanes: D4 D5 D6	556-67-2 541-02-6 540-97-6	GC // With reference to TEGEWA method (2021)	GC-MS // Ultrasonic extraction with tert-butyl methyl ether or acetone (30 min at 40° C)	All
Chlorinated benzenes and toluenes	-	EN 17137 (2024)	EN 17137 (2024) with GC-MS confirmation at low injection temperature	All
Pyrithione zinc	13463-41-7	DIN EN 16711-1 (2016) // Total content Confirmation method: CE/ICP-MS	DIN EN 16711-1 (2016) // Total content Confirmation method: HPLC-DAD or LC-MS or LC-MS/MS	All

Name	CAS No.	Old testing recommendation	New testing recommendation	Sector of Use
Mercury – as content	7439-97-6	EN 71-3 (2019) // Acidic solution migration simulating gastric juices EN ISO 12846 (2012)	DIN EN 16711-2 (2016) // Acidic sweat solution	Metal parts
Antimony - as content	7440-36-0	EN 71-3 (2019) // Acidic solution migration simulating gastric juices DIN EN ISO 17294-2 (2017) DIN EN ISO 11885 (2009)	DIN EN 16711-2 (2016) // Acidic sweat solution	Down/feather Polymer parts Metal parts
Nickel - as content	7440-02-0	EN 12472 (2020) EN 1811 (2011) + A1 (2015) // Release	DIN EN 16711-2 (2016) // Acidic sweat solution	Polymer parts
Chromium – as content	7440-47-3	EN 71-3 (2019) // Acidic solution migration simulating gastric juices DIN EN ISO 17294-2 (2017) DIN EN ISO 11885 (2009)	DIN EN 16711-2 (2016) // Acidic sweat solution	Down/feather Polymer parts Metal parts
Paraffin, C14-C17, chlorinated - (MCCP) including: Alkanes, C14-16, chloro Di-, tri- and tetrachlorotetradecane Tetradecane, chloro derivs.	85535-85-9 1372804-76-6 - 198840-65-2	ISO 18219 (2021)	ISO 18219-2 (2021)	Leather