



Report no. 26.0040749/1

from 9/24/2026

Order Date 8/28/2026

Period of Testing 8/31/2026 - 9/9/2026

Customer Reference

SKU 108829

Supplier MA

Aim of Test Determination according to legal requirements

Testing Material One sample

Source of sampling The test object was sent to Hohenstein by the client.

Your Contact Person Management Contract Team
(info@gymbeam.com)

Our Contact Person Division Softlines
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Report Approval



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Summary

Passed



Please refer to the test overview for details.



Testing Material

1 Women's FLO Leggings Graphite - GymBeam	
Article no.	108829
Color	Dark gray
Customer information	Collection: FLO Color: graphite Plastics: Subtle logo on left hip
Textile labeling article	50% nylon, 44% polyester, 6% elastane
Components	
1.1 Knitted fabric	Color: Dark gray Processing area: Main material
1.2 Printing	Color: White



1 Women's FLO Leggings Graphite - GymBeam



Test Overview

1 Women's FLO Leggings Graphite - GymBeam

Alkylphenols and certain alkylphenolethoxylates (APEO)	page 5	✓
Banned azo colorants, cleavable and certain free available arylamines	page 6	✓
Allergenic and carcinogenic colorants	page 8	✓
Bisphenols	page 9	✓
Total content of cadmium	page 10	✓
Chlorinated benzenes and toluenes	page 11	✓
Extractable heavy metals	page 12	✓
Free and partially releasable formaldehyde in textiles	page 13	✓
Pentachlorophenol (PCP)	page 14	✓
Per- and polyfluoroalkyl substances	page 15	✓
Phthalates (softeners)	page 18	✓

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List of abbreviations

n.d. = not determined = below Reporting Limit

RL = Reporting limit

LV = Limit value

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Detail Results

Alkylphenols and certain alkylphenolethoxylates (APEO)

The following results were evaluated against the limit values (LV):

I Regulation (EC) No 1907/2006 page 19

II Threshold value according to Art. 33 Regulation (EC) No. 1907/2006 and candidate list SVHC page 19

	1.1 [mg/kg]	RL [mg/kg]
Nonylphenol (NP)	n.d.	< 4.0
Octylphenol (OP)	n.d.	< 4.0
Heptylphenol (HpP)	n.d.	< 4.0
Pentylphenol (PeP)	n.d.	< 4.0
4-tert-Butylphenol (BP)	n.d.	< 4.0
Nonylphenolethoxylates (NP(EO))	n.d.	< 4.0
Octylphenolethoxylates (OP(EO))	n.d.	< 4.0

Additional details for this test

Method(s):

Solvent Extraction; Determination using HPLC-MS/MS

(DIN EN ISO 18254-1:2016-09^A (Modification: further analytes, extraction temperature; evaluation method) and DIN EN ISO 21084:2019-06^A (Modification: here only extraction, extraction volume))



Banned azo colorants, cleavable and certain free available arylamines

The following results were evaluated against the limit values (LV):

I Regulation (EC) No 1907/2006 page 20

II Threshold value according to Art. 33 Regulation (EC) No. 1907/2006 and candidate list SVHC page 20

	1.1 [mg/kg]	RL [mg/kg]
4-Aminobiphenyl	n.d.	< 10
Benzidine	n.d.	< 10
4-Chloro-o-toluidine/5-Chloro-o-toluidine	n.d.	< 10
2-Naphthylamine	n.d.	< 10
p-Chloroaniline	n.d.	< 10
2,4-Diaminoanisole	n.d.	< 10
4,4'-Diaminodiphenylmethane	n.d.	< 10
3,3'-Dichlorobenzidine	n.d.	< 10
3,3'-Dimethoxybenzidine	n.d.	< 10
3,3'-Dimethylbenzidine	n.d.	< 10
3,3'-Dimethyl-4,4'-diaminodiphenylmethane	n.d.	< 10
p-Cresidine (6-Methoxy-m-toluidine)	n.d.	< 10
4,4'-Methylene-bis-(2-chloroaniline)	n.d.	< 10
4,4'-Oxydianiline	n.d.	< 10
4,4'-Thiodianiline	n.d.	< 10
o-Toluidine	n.d.	< 10
2,4-Toluylenediamine	n.d.	< 10
2,4,5-Trimethylaniline	n.d.	< 10
o-Anisidine	n.d.	< 10
4-Aminoazobenzene	n.d.	< 10

Additional details for this test

Method(s):

Liquid-liquid-extraction after reduction; Determination using HPLC-DAD, HPLC-MS/MS and GC-MS(/MS)

DIN EN ISO 14362-1:2017-05^A and DIN EN ISO 14362-3:2017-05^A

Parameter hints:

o-Aminoazotoluene is detected indirectly by analysis of o-Toluidine.

2-Amino-4-nitrotoluene is detected indirectly by analysis of 2,4-Toluylenediamine.

2-Naphthylammoniumacetate is detected indirectly by analysis of 2-Naphthylamine.



2,4,5-Trimethylaniline Hydrochloride is detected indirectly by analysis of 2,4,5-Trimethylaniline.

4-Chloro-o-toluidiniumchloride is detected indirectly by analysis of 4-Chloro-o-toluidine.

4-Methoxy-m-phenylenediamine sulfate is detected indirectly by analysis of 2,4-Diaminoanisole.

Further Notes:

If necessary several test methods were carried out.

For aryl amines listed with a concentration of > 30 mg/kg:

It is suggested that the commodity submitted has been manufactured or treated using azo colorant/s, which are proscribed under Regulation (EC) REACH 1907/2006/Annex XVII.

If an aryl amine is listed with a concentration of ≤ 30 mg/kg, this means:

It can not necessarily conclude out of the analysis, that the commodity submitted has been manufactured or treated using azo colorant/s, which are proscribed under Regulation REACH 1907/2006/Annex XVII.

For 4-aminodiphenyl, 2-naphthylamine or 2,4-diaminoanisole:

The use of banned azo colorants cannot be reliably ascertained without additional information, e.g. the chemical structure of the colorants used.

For 4,4'-diaminodiphenylmethane or 2,4-toluylenediamine:

It is possible, that this arylamine has not been released from a banned azo colorant, but is present in free form or has a different source.

Result value details:

4-Chloro-o-toluidine/5-Chloro-o-toluidine

4-Chloro-o-toluidine and 5-Chloro-o-toluidine are not analytically separable, so that the determined value for both substances must be given combined.

4-Aminoazobenzene

Azo colorants that are able to form 4-aminoazobenzene, generate under the condition of some above mentioned methods aniline and 1,4-phenylenediamine. For the detection of 4-aminoazobenzene therefore additional methods are carried out if necessary.



Allergenic and carcinogenic colorants

The following results were evaluated against the limit values (LV):

- I Regulation (EC) No 1907/2006 page 21
- II Threshold value according to Art. 33 Regulation (EC) No. 1907/2006 and candidate list SVHC page 21
- III Derived from BfR-statement No 41/2012 page 21

	1.1 [mg/kg]	RL [mg/kg]
Basic Red 9	n.d.	< 10
Disperse Blue 1	n.d.	< 10
Basic Blue 26 / Solvent Blue 4	n.d.	< 10
Basic Violet 3	n.d.	< 10
Solvent Yellow 1 (4-Aminoazobenzol / Anilin Yellow)	n.d.	< 10
Solvent Yellow 3 (o-Aminoazotoluene)	n.d.	< 10
Basic Violet 1 / 4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol	n.d.	< 10
Disperse Blue 106	n.d.	< 10
Disperse Orange 37/59/76	n.d.	< 10
Disperse Yellow 3	n.d.	< 10
Disperse Red 1	n.d.	< 10
Disperse Blue 35	n.d.	< 10
Disperse Blue 124	n.d.	< 10
Disperse Orange 3	n.d.	< 10
Michler's ketone	n.d.	< 10
Michler's base	n.d.	< 10
Additional details for this test		

Method(s):

Solvent Extraction; Determination using HPLC-DAD/MS and HPLC-MS/MS (DIN 54231:2022-09^A; Modification: number of analytes to be determined)

Parameter hints:

For the following substances no concentrations are shown, since no direct quantitation is possible:

Direct Black 38, Direct Red 28, Pigment Red 104, Pigment Yellow 34, Reactive Brown 51

Basic Blue 26 and Solvent Blue 4 are not analytically separable, so that the determined value for both substances must be given combined.

Basic Violet 1 and 4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol are not analytically separable, so that the determined value for both substances must be given combined.



Bisphenols

The following results were evaluated against the limit values (LV):

I Threshold value according to Art. 33 Regulation (EC) No. 1907/2006 and candidate list SVHC

	1.1 [mg/kg]	RL [mg/kg]	LV [mg/kg]
Bisphenol A	n.d.	< 5	≤ 1000
Bisphenol B	n.d.	< 5	≤ 1000
Bisphenol S	n.d.	< 5	≤ 1000
Bisphenol F	n.d.	< 5	≤ 1000
Bisphenol AF	n.d.	< 5	≤ 1000
2,2'-Methylenebis(4-methyl-6-tert-butylphenol) (Vulkanox BKF)	n.d.	< 50	≤ 1000
Bis(4-chlorophenyl)sulphone	n.d.	< 50	≤ 1000
Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	n.d.	< 50	≤ 1000
Bis(α,α-dimethylbenzyl) peroxide	n.d.	< 50	≤ 1000
Acetophenone azine	n.d.	< 10	≤ 1000

Additional details for this test

Method(s):

Solvent extraction; Determination using HPLC-MS/MS (In-house method, 3.DEC.0140 ^A)



Total content of cadmium

The following results were evaluated against the limit values (LV):

- I Regulation (EC) No. 1907/2006 - articles produced from plastic page [22](#)
- II Threshold value according to Art. 33 Regulation (EC) No. 1907/2006 and candidate list SVHC page [22](#)

	1.2 [mg/kg]	RL [mg/kg]
Cadmium	< 5	< 5

Additional details for this test

Method(s):

Micro wave decomposition (DIN EN 16711-1:2016-02^A; Modification: numbers of analytes to be determined, sample preparation and digestion methods

CPSC-CH-E1003-09.1 (Paint and other similar surface coatings)

CPSC-CH-E1002-08.3 (Nonmetal children's products)

Determination using ICP/MS (DIN EN ISO 17294-2:2024-12^A)



Chlorinated benzenes and toluenes

The following results were evaluated against the limit values (LV):

I Regulation (EC) No 1907/2006 page 23

II Regulation (EU) 2019/1021 on persistent organic pollutants page 23

	1.1 [mg/kg]	RL [mg/kg]
a,a,a,4-Tetrachlorotoluene	n.d.	< 0.10
a,a,a-Trichlorotoluene	n.d.	< 0.10
a-Chlorotoluene	n.d.	< 0.10
Pentachlorobenzene	n.d.	< 0.10
Hexachlorobenzene	n.d.	< 0.10

Additional details for this test

Method(s):

Solvent extraction; Determination using GC-MS/MS (DIN EN 17137:2025-01^A; Modification: here also in leather, additional analytes, calculation of the sum)



Extractable heavy metals

The following results were evaluated against the limit values (LV):

- I Regulation (EC) No 1907/2006 page 24
- II Threshold value according to Art. 33 Regulation (EC) No. 1907/2006 and candidate list SVHC page 24

	1.1 [mg/kg]	RL [mg/kg]
Arsenic	n.d.	< 0.10
Lead	n.d.	< 0.10
Cadmium	n.d.	< 0.05
Additional details for this test		

Method(s):

Extraction with artificial acid perspiration solution; Determination using ICP-MS (DIN EN 16711-2:2016-02^A and DIN EN ISO 17294-2:2024-12^A)



Free and partially releasable formaldehyde in textiles

The following results were evaluated against the limit values (LV):

I Regulation (EC) No 1907/2006

	1.1 [mg/kg]	RL [mg/kg]	LV [mg/kg]
Formaldehyde	n.d.	< 10	< 75
Additional details for this test			

Method(s):

Qualitative pre-testing by house method



Pentachlorophenol (PCP)

The following results were evaluated against the limit values (LV):

- I Regulation (EU) 2019/1021 on persistent organic pollutants page **25**
- II ChemVerbotsV page **25**

	1.1 [mg/kg]	RL [mg/kg]
Pentachlorophenol	n.d.	< 0.01

Additional details for this test

Method(s):

KOH-extraction; Determination using GC-MS/MS (DIN EN 17134-2:2023-09^A; Modification: extraction method)



Per- and polyfluoroalkyl substances

The following results were evaluated against the limit values (LV):

- I Regulation (EC) No 1907/2006 - Articles page 26
- II Regulation (EU) 2019/1021 on persistent organic pollutants page 26
- III Threshold value according to Art. 33 Regulation (EC) No. 1907/2006 and candidate list SVHC page 26
- IV Code de l'environnement (France) page 26

	1.1 [µg/kg]	RL [µg/kg]
Perfluorooctanoic acid and salts (PFOA)	n.d.	< 10
Perfluorooctane sulfonic acid and sulfonates (PFOS)	n.d.	< 10
Sum PFOS and their salts	n.d.	-
Perfluorooctane sulfonamide (PFOSA)	n.d.	< 10
N-Methyl perfluorooctane sulfonamide (N-Me-FOSA)	n.d.	< 10
N-Ethyl perfluorooctane sulfonamide (N-Et-FOSA)	n.d.	< 10
N-Methyl perfluorooctane sulfonamide ethanol (N-Me-FOSE)	n.d.	< 10
N-Ethyl perfluorooctane sulfonamide ethanol (N-Et-FOSE)	n.d.	< 10
Sum PFOS related substances	n.d.	-
Perfluorohexane sulfonic acid and salts (PFHxS)	n.d.	< 10
Perfluorohexane sulfonamide (PFHxSA)	n.d.	< 10
N-Methyl perfluorohexane sulfonamide (N-Me-PFHxSA)	n.d.	< 10
Sum PFHxS related substances	n.d.	-
Perfluorononanoic acid and salts (PFNA)	n.d.	< 10
Perfluorodecanoic acid and salts (PFDA)	n.d.	< 10
Henicosafuoroundecanoic acid and salts (PFUdA)	n.d.	< 10
Tricosafuorododecanoic acid and salts (PFDoA)	n.d.	< 10
Pentacosafuorotridecanoic acid and salts (PFTrDA)	n.d.	< 10
Heptacosafuorotetradecanoic acid and salts (PFTeDA)	n.d.	< 10
Perfluoro(3,7-dimethyloctanoic acid) and salts (PF-3,7-DMOA)	n.d.	< 10
Sum C9-C14-PFCA	n.d.	-



	1.1 [µg/kg]	RL [µg/kg]
Henicosafluorodecane sulfonic acid and salts (PFDS)	n.d.	< 10
2H,2H,3H,3H-Perfluoroundecanoic acid and salts (4HPFUnA)	n.d.	< 10
1H,1H,2H,2H-Perfluoro-1-decanol (8:2 FTOH)	n.d.	< 20
1H,1H,2H,2H-Perfluorodecane sulfonic acid and salts (8:2 FTS)	n.d.	< 10
2H,2H-Perfluorodecanoic acid and salts (H2PFDA)	n.d.	< 10
Sum PFOA-related substances	n.d.	-
1H,1H,2H,2H-Perfluoro-1-dodecanol (10:2 FTOH)	n.d.	< 20
1H,1H,2H,2H-Perfluoro-1-tetradecanol (12:2 FTOH)	n.d.	< 20
1H,1H,2H,2H-Perfluorododecane sulfonic acid and salts (10:2 FTS)	n.d.	< 10
Sum C9-C14-PFCA related substances	n.d.	-
Perfluorohexanoic acid and salts (PFHxA)	n.d.	< 10
Sum PFHxA and their salts	-	-
1H,1H,2H,2H-Perfluoro-1-octanol (6:2 FTOH)	n.d.	< 20
1H, 1H, 2H, 2H-Perfluorooctane sulfonic acid and salts (6:2 FTS)	n.d.	< 10
Sum PFHxA-related substances	-	-
Perfluoroheptanoic acid and salts (PFHpA)	n.d.	< 10
Perfluorobutane sulfonic acid and salts (PFBS)	n.d.	< 10
1H,1H,2H,2H-Perfluoro-1-hexanol (4:2 FTOH)	n.d.	< 100
7H-Perfluoro heptanoic acid and salts (7HPFHpA)	n.d.	< 10
Perfluoroheptane sulfonic acid and salts (PFHpS)	n.d.	< 10
Perfluorobutanoic acid and salts (PFBA)	n.d.	< 10
Perfluoropentanoic acid and salts (PFPeA)	n.d.	< 10
2,3,3,3-tetrafluoro-2-(heptafluoro propoxy)propionic acid, its salts and its acyl halides (HFPO-DA)	n.d.	< 10
Nonacosafuoropentadecanoic acid and salts (PFPeDA)	n.d.	< 10
Perfluorohexadecanoic acid and salts (PFHxDA)	n.d.	< 10



	1.1 [µg/kg]	RL [µg/kg]
Perfluorooctadecanoic acid and salts (PFODA)	n.d.	< 10
1H,1H,2H,2H-Perfluorohexane sulfonic acid and salts (4:2 FTS)	n.d.	< 10
Perfluorooctane sulfonamido acetic acid (FOSAA)	n.d.	< 10
N-Methylperfluoro-1-octanesulfonamidoacetic acid (n-Me-FOSAA)	n.d.	< 10
2-(N-Ethylperfluorooctanesulfonamido)acetic acid (n-Et-FOSAA)	n.d.	< 10
Sum of PFAS	n.d.	-

Additional details for this test

Method(s):

PFAS according to DIN EN 17681-1:2025-06^A (Hydrolysis)

Solvent extraction with alkaline hydrolysis; Determination using HPLC-MS/MS (DIN EN 17681-1:2025-06^A)

Parameter hints:

Perfluorooctane sulfonyl fluoride (PFOSF / POSF) determined as Perfluorooctane sulfonic acid and sulfonates (PFOS).

Me-PFOA and Et-PFOA determined as Perfluorooctanoic acid and salts (PFOA).

6:2 FTA is determined as 6:2 FTOH.

8:2 FTA, 8:2 FTMA is determined as 8:2 FTOH.

10:2 FTA, 10:2 FTMA is determined as 10:2 FTOH.

Result value details:

Sum PFOS and their salts

Sum of PFOS

Sum PFOS related substances

Sum of PFOSA, N-Me-FOSA, N-Et-FOSA, N-Me-FOSE, N-Et-FOSE

Sum PFHxS related substances

Sum of N-Me-FHxSA, PFHxSA

Sum C9-C14-PFCA

Sum of PFNA, PFDA, PFUDa, PFDoA, PFTrDA, PFTeDA, PF-3,7-DMOA

Sum PFOA-related substances

Sum of 8:2 FTOH, 8:2 FTS, H2PFDA

Sum C9-C14-PFCA related substances

Sum of PFDS, 4HPFUnA, 8:2 FTOH, 10:2 FTOH, 12:2 FTOH, 8:2 FTS, 10:2 FTS

Sum PFHxA and their salts

Sum of PFHxA

Sum PFHxA-related substances

Sum of 6:2 FTOH, 6:2 FTS



Phthalates (softeners)

The following results were evaluated against the limit values (LV):

I Regulation (EC) No 1907/2006 - Articles page **29**

II Threshold value according to Art. 33 Regulation (EC) No. 1907/2006 and candidate list SVHC page **29**

	1.2 [mg/kg]	RL [mg/kg]
Di-(2-ethylhexyl)phthalate (DEHP)	n.d.	< 50
Dibutyl phthalate (DBP)	n.d.	< 50
Benzyl butyl phthalate (BBP)	n.d.	< 50
Di-iso-butyl phthalate (DIBP)	n.d.	< 50
Di-n-octyl phthalate (DNOP)	n.d.	< 50
Di-iso-decyl phthalate (DIDP)	n.d.	< 50
Di-iso-nonyl phthalate (DINP)	n.d.	< 50
Di-n-hexyl phthalate (DnHP)	n.d.	< 50
Di-iso-hexyl phthalate (DiHxP)	n.d.	< 50
Dihexylphthalate, branched and linear (DHxP)	n.d.	-
Di-(2-methoxyethyl)phthalate (DMEP)	n.d.	< 50
Di-C6-8 branched alkylphthalates, C7 rich (DIHP)	n.d.	< 50
Di-n-pentyl phthalate (DnPP)	n.d.	< 50
Di-iso-pentyl phthalate (DiPP)	n.d.	< 50
n-Pentyl-iso-pentyl phthalate (nPIP)	n.d.	< 50
Di-phentylphthalate (n-, iso-, or mixed) (DPP)	n.d.	-
Di-cyclohexyl phthalate (DCHP)	n.d.	< 50
2,4,6-Tri-tert-butylphenol	n.d.	< 50
Sum DEHP, DBP, BBP, DIBP	n.d.	-
Sum DEHP, DBP, BBP, DIBP DnHP, DMEP, DIHP, DPP	-	-
Sum DINP, DIDP, DNOP	-	-

Additional details for this test

Method(s):

Solvent extraction; Determination using GC-MS/MS (DIN EN ISO 14389:2023-01^A; Modification: number of analytes to be determined)

Parameter hints:

For the following substances no concentrations are shown, since no direct quantitation is possible:

1,2-Benzenedicarboxylic acid, di-C6-10 alkyl esters, 1,2-Benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters



Limit value catalogs overview

Alkylphenols and certain alkylphenolethoxylates (APEO)

I Regulation (EC) No 1907/2006

II Threshold value according to Art. 33 Regulation (EC) No. 1907/2006 and candidate list SVHC

	I [mg/kg]	II [mg/kg]
Nonylphenol (NP)	-	≤ 1000.0
Octylphenol (OP)	-	≤ 1000.0
Heptylphenol (HpP)	-	≤ 1000.0
Pentylphenol (PeP)	-	≤ 1000.0
4-tert-Butylphenol (BP)	-	≤ 1000.0
Nonylphenolethoxylates (NP(EO))	< 100.0	≤ 1000.0
Octylphenolethoxylates (OP(EO))	-	≤ 1000.0



Banned azo colorants, cleavable and certain free available arylamines

I Regulation (EC) No 1907/2006

II Threshold value according to Art. 33 Regulation (EC) No. 1907/2006 and candidate list SVHC

	I [mg/kg]	II [mg/kg]
4-Aminobiphenyl	≤ 30	≤ 1000
Benzidine	≤ 30	-
4-Chloro-o-toluidine/5-Chloro-o-toluidine	≤ 30	-
2-Naphthylamine	≤ 30	-
p-Chloroaniline	≤ 30	-
2,4-Diaminoanisole	≤ 30	-
4,4'-Diaminodiphenylmethane	≤ 30	≤ 1000
3,3'-Dichlorobenzidine	≤ 30	-
3,3'-Dimethoxybenzidine	≤ 30	-
3,3'-Dimethylbenzidine	≤ 30	-
3,3'-Dimethyl-4,4'-diaminodiphenylmethane	≤ 30	≤ 1000
p-Cresidine (6-Methoxy-m-toluidine)	≤ 30	≤ 1000
4,4'-Methylene-bis-(2-chloroaniline)	≤ 30	≤ 1000
4,4'-Oxydianiline	≤ 30	≤ 1000
4,4'-Thiodianiline	≤ 30	-
o-Toluidine	≤ 30	≤ 1000
2,4-Toluylenediamine	≤ 30	≤ 1000
2,4,5-Trimethylaniline	≤ 30	-
o-Anisidine	≤ 30	≤ 1000
4-Aminoazobenzene	≤ 30	≤ 1000



Allergenic and carcinogenic colorants

I Regulation (EC) No 1907/2006

II Threshold value according to Art. 33 Regulation (EC) No. 1907/2006 and candidate list SVHC

III Derived from BfR-statement No 41/2012

	I [mg/kg]	II [mg/kg]	III [mg/kg]
Basic Red 9	< 50	-	-
Disperse Blue 1	< 50	-	< 50
Basic Blue 26 / Solvent Blue 4	-	≤ 1000	-
Basic Violet 3	< 50	≤ 1000	-
Solvent Yellow 1 (4-Aminoazobenzol / Anilin Yellow)	-	≤ 1000	-
Solvent Yellow 3 (o-Aminoazotoluene)	-	≤ 1000	-
Basic Violet 1 / 4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol	-	≤ 1000	-
Disperse Blue 106	-	-	< 50
Disperse Orange 37/59/76	-	-	< 50
Disperse Yellow 3	-	-	< 50
Disperse Red 1	-	-	< 50
Disperse Blue 35	-	-	< 50
Disperse Blue 124	-	-	< 50
Disperse Orange 3	-	-	< 50
Michler's ketone	-	≤ 1000	-
Michler's base	-	≤ 1000	-



Total content of cadmium

- I Regulation (EC) No. 1907/2006 - articles produced from plastic
- II Threshold value according to Art. 33 Regulation (EC) No. 1907/2006 and candidate list SVHC

	I [mg/kg]	II [mg/kg]
Cadmium	< 100	≤ 1000



Chlorinated benzenes and toluenes

I Regulation (EC) No 1907/2006

II Regulation (EU) 2019/1021 on persistent organic pollutants

	I [mg/kg]	II [mg/kg]
a,a,a,4-Tetrachlorotoluene	< 1.00	-
a,a,a-Trichlorotoluene	< 1.00	-
a-Chlorotoluene	< 1.00	-
Pentachlorobenzene	-	< 0.10
Hexachlorobenzene	-	< 10.00



Extractable heavy metals

I Regulation (EC) No 1907/2006

II Threshold value according to Art. 33 Regulation (EC) No. 1907/2006 and candidate list SVHC

	I [mg/kg]	II [mg/kg]
Arsenic	< 1.00	-
Lead	< 1.00	≤ 1000.00
Cadmium	< 1.00	≤ 1000.00



Pentachlorophenol (PCP)

I Regulation (EU) 2019/1021 on persistent organic pollutants

II ChemVerbotsV

	I [mg/kg]	II [mg/kg]
Pentachlorophenol	≤ 5.00	≤ 5.00



Per- and polyfluoroalkyl substances

- I Regulation (EC) No 1907/2006 - Articles
- II Regulation (EU) 2019/1021 on persistent organic pollutants
- III Threshold value according to Art. 33 Regulation (EC) No. 1907/2006 and candidate list SVHC
- IV Code de l'environnement (France)

	I [µg/kg]	II [µg/kg]	III [µg/kg]	IV [µg/kg]
Perfluorooctanoic acid and salts (PFOA)	-	< 25	-	< 25
Perfluorooctane sulfonic acid and sulfonates (PFOS)	-	-	-	< 25
Sum PFOS and their salts	-	< 25	-	-
Perfluorooctane sulfonamide (PFOSA)	-	-	-	< 25
N-Methyl perfluorooctane sulfonamide (N-Me-FOSA)	-	-	-	< 25
N-Ethyl perfluorooctane sulfonamide (N-Et-FOSA)	-	-	-	< 25
N-Methyl perfluorooctane sulfonamide ethanol (N-Me-FOSE)	-	-	-	< 25
N-Ethyl perfluorooctane sulfonamide ethanol (N-Et-FOSE)	-	-	-	< 25
Sum PFOS related substances	-	< 1000	-	-
Perfluorohexane sulfonic acid and salts (PFHxS)	-	< 25	-	< 25
Perfluorohexane sulfonamide (PFHxSA)	-	-	-	< 25
N-Methyl perfluorohexane sulfonamide (N-Me-PFHxSA)	-	-	-	< 25
Sum PFHxS related substances	-	≤ 1000	-	-
Perfluorononanoic acid and salts (PFNA)	-	-	≤ 1000000	< 25
Perfluorodecanoic acid and salts (PFDA)	-	-	≤ 1000000	< 25
Henicosfluoroundecanoic acid and salts (PFUdA)	-	-	≤ 1000000	< 25
Tricosfluorododecanoic acid and salts (PFDoA)	-	-	≤ 1000000	< 25
Pentacosfluorotridecanoic acid and salts (PFTrDA)	-	-	≤ 1000000	< 25
Heptacosfluorotetradecanoic acid and salts (PFTeDA)	-	-	≤ 1000000	< 25
Perfluoro(3,7-dimethyloctanoic acid) and salts (PF-3,7-DMOA)	-	-	-	< 25
Sum C9-C14-PFCA	< 25	-	-	-



	I [µg/kg]	II [µg/kg]	III [µg/kg]	IV [µg/kg]
Henicosfluorodecane sulfonic acid and salts (PFDS)	-	-	-	< 25
2H,2H,3H,3H-Perfluoroundecanoic acid and salts (4HPFUnA)	-	-	-	< 25
1H,1H,2H,2H-Perfluoro-1-decanol (8:2 FTOH)	-	-	-	< 25
1H,1H,2H,2H-Perfluorodecane sulfonic acid and salts (8:2 FTS)	-	-	-	< 25
2H,2H-Perfluorodecanoic acid and salts (H2PFDA)	-	-	-	-
Sum PFOA-related substances	-	≤ 1000	-	-
1H,1H,2H,2H-Perfluoro-1-dodecanol (10:2 FTOH)	-	-	-	< 25
1H,1H,2H,2H-Perfluoro-1-tetradecanol (12:2 FTOH)	-	-	-	< 25
1H,1H,2H,2H-Perfluorododecane sulfonic acid and salts (10:2 FTS)	-	-	-	< 25
Sum C9-C14-PFCA related substances	≤ 260	-	-	-
Perfluorohexanoic acid and salts (PFHxA)	-	-	-	< 25
Sum PFHxA and their salts	-	-	-	-
1H,1H,2H,2H-Perfluoro-1-octanol (6:2 FTOH)	-	-	-	< 25
1H, 1H, 2H, 2H-Perfluorooctane sulfonic acid and salts (6:2 FTS)	-	-	-	< 25
Sum PFHxA-related substances	-	-	-	-
Perfluoroheptanoic acid and salts (PFHpA)	-	-	≤ 1000000	< 25
Perfluorobutane sulfonic acid and salts (PFBS)	-	-	≤ 1000000	< 25
1H,1H,2H,2H-Perfluoro-1-hexanol (4:2 FTOH)	-	-	-	< 25
7H-Perfluoro heptanoic acid and salts (7HPFHpA)	-	-	-	< 25
Perfluoroheptane sulfonic acid and salts (PFHpS)	-	-	-	< 25
Perfluorobutanoic acid and salts (PFBA)	-	-	-	< 25
Perfluoropentanoic acid and salts (PFPeA)	-	-	-	< 25
2,3,3,3-tetrafluoro-2-(heptafluoro propoxy)propionic acid, its salts and its acyl halides (HFPO-DA)	-	-	-	< 25
Nonacosfluoropentadecanoic acid and salts (PFPeDA)	-	-	-	< 25
Perfluorohexadecanoic acid and salts (PFHxDA)	-	-	-	< 25



	I [µg/kg]	II [µg/kg]	III [µg/kg]	IV [µg/kg]
Perfluorooctadecanoic acid and salts (PFODA)	-	-	-	< 25
1H,1H,2H,2H-Perfluorohexane sulfonic acid and salts (4:2 FTS)	-	-	-	< 25
Perfluorooctane sulfonamido acetic acid (FOSAA)	-	-	-	< 25
N-Methylperfluoro-1-octanesulfonamidoacetic acid (n-Me-FOSAA)	-	-	-	< 25
2-(N-Ethylperfluorooctanesulfonamido)acetic acid (n-Et-FOSAA)	-	-	-	< 25
Sum of PFAS	-	-	-	< 25



Phthalates (softeners)

I Regulation (EC) No 1907/2006 - Articles

II Threshold value according to Art. 33 Regulation (EC) No. 1907/2006 and candidate list SVHC

	I [mg/kg]	II [mg/kg]
Di-(2-ethylhexyl)phthalate (DEHP)	< 1000	≤ 1000
Dibutyl phthalate (DBP)	< 1000	≤ 1000
Benzyl butyl phthalate (BBP)	< 1000	≤ 1000
Di-iso-butyl phthalate (DIBP)	< 1000	≤ 1000
Di-n-octyl phthalate (DNOP)	-	-
Di-iso-decyl phthalate (DIDP)	-	-
Di-iso-nonyl phthalate (DINP)	-	-
Di-n-hexyl phthalate (DnHP)	-	≤ 1000
Di-iso-hexyl phthalate (DiHxP)	-	≤ 1000
Di-hexylphthalate, branched and linear (DHxP)	-	≤ 1000
Di-(2-methoxyethyl)phthalate (DMEP)	-	≤ 1000
Di-C6-8 branched alkylphthalates, C7 rich (DIHP)	-	≤ 1000
Di-n-pentyl phthalate (DnPP)	-	-
Di-iso-pentyl phthalate (DiPP)	-	-
n-Pentyl-iso-pentyl phthalate (nPIP)	-	-
Di-phentylphthalate (n-, iso-, or mixed) (DPP)	-	≤ 1000
Di-cyclohexyl phthalate (DCHP)	-	≤ 1000
2,4,6-Tri-tert-butylphenol	-	≤ 1000
Sum DEHP, DBP, BBP, DIBP	< 1000	-
Sum DEHP, DBP, BBP, DIBP, DnHP, DMEP, DIHP, DPP	-	-
Sum DINP, DIDP, DNOP	-	-