



Walgreens Boots Alliance Chemicals Action List (CAL)

[an expansion and adaptation of the formerly entitled Restricted Substances List (RSL)]

As of 1 January 2022

Walgreens Boots Alliance is committed to responsible chemicals management and will go beyond regulatory requirements by adopting positions on unregulated chemicals such as prohibiting, eliminating, substituting or restricting chemicals in products where we have identified a cause for concern.

The WBA Chemicals Action List identifies chemicals of concern for WBA's Own or Owned Brand Cosmetic (Baby, Beauty and Personal Care) and Household Cleaning product categories that are sourced for retail sale by:

- any of WBA's Divisions and Businesses
- any entity in which the Company has a controlling interest
- all cross-Divisional functions
- and the Corporate function(s).

The Chemicals Action List contains:

1. A Prohibited List – the chemicals on this list **MUST NOT** be present or intentionally added.
2. An Elimination List - chemicals to be eliminated within a defined time period.
3. A Stewardship List - chemicals which do not, as yet, have a formal WBA decision on whether to prohibit, eliminate or restrict. They will be closely monitored with a view to adding initially to the Elimination List and ultimately to the Prohibited List at a future date.



1. Prohibited List

The following chemicals are PROHIBITED and must not be present, or intentionally added, to any WBA's Own or Owned Brand Cosmetic (Baby, Beauty and Personal Care) or Household Cleaning products:

Chemical Class/Name		CAS Number
Solvent Allergen	Dicaprylyl maleate	2915-53-9
Antiseptic	Triclosan	3380-34-5
Colors	CI 26100	85-86-9
Formaldehyde & Formaldehyde Donors (Releasers) ¹	5-Bromo-5-Nitro-1,3-Dioxane	30007-47-7
	Formaldehyde	50-00-0
	Glyoxal	107-22-2
	Quaternium 15	4080-31-3
	Sodium hydroxymethylglycinate	70161-44-3
	Toluenesulfonamide Formaldehyde	25035-71-6
	Methanediol	463-57-0
Nonylphenol & NP Ethoxylates ²	1-Ethoxy-3-nonylbenzene	28679-13-2
	2-[2-[2-[2-[2-(4-Nonylphenoxy)ethoxy] ethoxy]ethoxy]ethoxy]ethoxy]ethanol	34166-38-6
	2-Nonylphenol	136-83-4
	2-sec-butylphenol	89-72-5
	2,3,6-trimethyl-phenol	2416-94-6
	2,4-di-tert-butylphenol	96-76-4
	2,4-Di-tert-pentylphenol	120-95-6
	2,4,6-Tri-t-butylphenol	732-26-3
	2,6-Di-tert-butyl-4-sec-butylphenol	17540-75-9
	20-(4-Nonylphenoxy)-3,6,9,12,15,18-hexaoxaicosan-1-ol	27942-27-4
	3-Nonylphenol	139-84-4
	3,6,9,12,15,18,21,24,27-Nonaoxanonacosan-1-ol, 29- (nonylphenoxy)-	27177-08-8
	4-(1-Ethyl-1-Methylhexyl)Phenol	52427-13-1
	4-alpha-Cumylphenol	599-64-4
4-dodecyl-phenol	104-43-8	



Chemical Class/Name	CAS Number
4-Nonylphenol	104-40-5
4-nonylphenol (branched)	84852-15-3
4-Nonylphenol (Linear)	104-40-5
4-Nonylphenol, ethoxylated	127087-87-0
4-tert-Butylphenol	98-54-4
4-tert-Octylphenol	140-66-9
Barium, carbonate nonylphenol complexes	68515-89-9
Dinonylphenol	1323-65-5
Dodecylphenol	27193-86-8
ethanol, 2-(4-nonylphenoxy)	104-35-8
Ethanol, 2-[2-(4-nonylphenoxy)ethoxy]-	20427-84-3
Isononylphenol (mixed isomers)	11066-49-2
nonoxynol 10	9016-45-9
Nonoxynol 9	14409-72-4
Nonoxynol-1	27986-36-3
Nonoxynol-2	27176-93-8
Nonoxynol-4	7311-27-5
Nonoxynol-8	27177-05-5
Nonoxynol-9	26027-38-3; 26571-11-9
Nonyl phenol ethoxylate blend	63496-57-1
Nonylphenol	25154-52-3
Nonylphenol, branched, ethoxylated	68412-54-4; 68987-90-6
Nonylphenoxy poly(ethyleneoxy) ethyl phosphate, sodium salt	37340-60-6
O-isononylphenol	27938-31-4
Oxirane, methyl-, polymer with oxirane, mono(nonylphenyl) ether, branched	68891-11-2; 37251-69-7
P-(1-Methyloctyl)Phenol	17404-66-9
P-(1,1-Dimethylheptyl)Phenol	30784-30-6
P-Isononylphenol	26543-97-5
Phenol, nonyl-, branched	90481-04-2



Chemical Class/Name	CAS Number	
	Poly(oxy 1,2 ethanediyl),. alpha. (nonylphenyl). omega. hydroxy, phosphate	68412-53-3;51811-79-1
	Poly(oxy 1,2 ethanediyl), a (isononylphenyl) w hydroxy	37205-87-1
	Polyethyleneglycol nonylphenyl ether, ammonium salt	9051-57-4
Branched-chain Parabens	Isobutylparaben	4247-02-3
	Isopropylparaben	4191-73-5
	Potassium butylparaben	38566-94-8
	Potassium propylparaben	84930-16-5
Phthalates ²	Butyl benzyl phthalate	85-68-7
	Di-2-ethylhexyl phthalate	117-81-7
	di(N-hexyl) phthalate	84-75-3
	Dibutyl phthalate	84-74-2
	Dicyclohexyl Phthalate	84-61-7
	Diethyl phthalate	84-66-2
	Diisobutyl Phthalate	84-69-5
	Diisodecyl phthalate	26761-40-0
	Diisononyl Phthalate	28553-12-0
	Diocetyl Phthalate	117-84-0
	Dipentyl phthalate	131-18-0
Others	Toluene	108-88-3
	Methanol	67-56-1
	Xylene	1330-20-7
	Plastic Microbeads^{3&4}	9002-88-4
UV Filters	Benzophenone-2	131-55-5

¹ Not an exhaustive list. Any chemical identified as releasing formaldehyde is subject to this restriction

² Not an exhaustive list

³ Plastic (UK SI 2017 No 1312): Is defined as “a synthetic polymeric substance that can be moulded, extruded or physically manipulated into various solid forms and that retains its final manufactured shape during use in its intended applications.

⁴ Microbead (UK: SI 2017 No 1312): Is defined as any water-insoluble solid plastic particle of less than or equal to 5mm in any dimension. (US: Microbead-Free Waters Act of 2015 H.R. 1321 Public Law No: 114-114 (12/28/2015)): Any solid plastic particle that is less than five millimeters in size and is intended to be used to exfoliate or cleanse the human body or any part thereof.



2. Elimination List

The following chemicals must be eliminated from and not be present, or intentionally added to any WBA's Own or Owned Brand Cosmetic (Baby, Beauty and Personal Care) and Household Cleaning products by the dates shown.

WBA will work collaboratively with our suppliers to facilitate the elimination of these chemicals through reformulation of products by the Elimination Date indicated. In moving to remove these chemicals, we encourage suppliers to select suitable alternatives, for example by utilising the US Environmental Protection Agency (EPA) Safer Choice program www.epa.gov/saferchoice; or, the International Chemical Secretariat (ChemSec) Marketplace <https://chemsec.org/business-tool/marketplace/>.

Chemical Class	Chemical Name	CAS Number	Elimination Date
Antiseptics	Triclocarban	101-20-2; 1322-40-3	31 st December 2024
UV Filters	3-Benzylidene Camphor	15087-24-8	31 st December 2024
	4-Methylbenzylidene Camphor (Enzacamene) ¹	36861-47-9	31 st December 2024
Perfluorinated Chemical ² **(THIS IS A NON-EXHAUSTIVE LIST of Perfluorinated Chemicals, see "NOTES" below)**	Acrylates/Methoxy PEG-23 Methacrylate/Perfluorooctyl Ethyl Acrylate Copolymer		31 st December 2024
	Acrylates/Perfluorohexylethyl Methacrylate Copolymer	1557087-30-5	
	Acrylates/Trifluoropropylmethacrylate/Polytrimethyl Siloxymethacrylate Copolymer		
	Acrylic Acid/Perfluorohexylethyl Acrylate Crosspolymer	1820790-78-0	
	Ammonium C6-16 Perfluoroalkylethyl Phosphate	65530-70-3, 65530-71-4, 65530-72-5	
	Ammonium C9-10 Perfluoroalkylsulfonate		
	Ammonium Heptadecafluorooctanesulfonate	29081-56-9	
	Ammonium Nonadecafluorodecanoate	3108-42-7	
	Ammonium Pentadecafluorooctanoate	3825-26-1	
Ammonium Perfluorohexyl Ethylphosphates	1764-95-0		



Chemical Class	Chemical Name	CAS Number	Elimination Date
PFAS (Continued)	Ammonium Perfluorononanoate	4149-60-4	31 st December 2024
	AMP-C8-18 Perfluoroalkylethyl Phosphate	65530-64-5	
	Behenyl Methacrylate/Perfluorooctylethyl Methacrylate Copolymer		
	Butyl Acrylate/C6-14 Perfluoroalkylethyl Acrylate/Mercaptopropyl Dimethicone Copolymer		
	C12-16 Alkyl PEG-7 Methacrylate/Perfluorohexylethyl Methacrylate Copolymer		
	C20-28 Alkyl Perfluorodecylethoxy Dimethicone		
	C4-18 Perfluoroalkylethyl Thiohydroxypropyltrimonium Chloride	70983-60-7	
	C6-12 Perfluoroalkylethanol		
	C6-14 Perfluoroalkylethyl Acrylate/HEMA Copolymer		
	C8-18 Fluoroalcohol Phosphate		
	C9-13 Fluoroalcohol		
	C9-15 Fluoroalcohol Phosphate		
	DEA-C8-18 Perfluoroalkylethyl Phosphate	65530-63-4, 65530-64-5	
	DEA-Perfluorohexyl Ethylphosphates		
	DEA-Polyperfluoroethoxymethoxy PEG-2 Phosphate		
	Diethanolamine Perfluorooctane Sulfonate	70225-14-8	
	Diethylaminoethyl Methacrylate/HEMA/Perfluorohexylethyl Methacrylate Crosspolymer		
	Dimethiconol Fluoroalcohol Dilinoleic Acid		
	Dioctyldodecyl Fluoroheptyl Citrate	214334-16-4	
	Ethyl Perfluorobutyl Ether	163702-05-4	
	Ethyl Perfluoroisobutyl Ether	163702-06-5	
	Fluoro C2-8 Alkyldimethicone		
Heptadecafluorooctane-1-sulfonic acid	1763-23-1		



Chemical Class	Chemical Name	CAS Number	Elimination Date
PFAS (Continued)	Hexafluoropropylene/Tetrafluoroethylene Copolymer	25067-11-2	31 st December 2024
	Hydrogen Trifluoropropyl Dimethicone	766542-38-5	
	Isobutylmethacrylate/Trifluoroethylmethacrylate/Bis-Hydroxypropyl Dimethicone Acrylate Copolymer	321735-42-6	
	Isopropyl Titanium Triisostearate/Perfluorooctyl Triethoxysilane Crosspolymer		
	Lithium heptadecafluorooctanesulfonate	29457-72-5	
	Methyl Perfluoro Butyl/Isobutyl Ether	163702-07-6 (isomer), 163702-08-7 (isomer)	
	Methyl Perfluorobutyl Ether	163702-07-6	
	Methyl Perfluoroisobutyl Ether	163702-08-7	
	Nonadecafluorodecanoic acid	335-76-2	
	Octafluoropentyl Methacrylate	355-93-1	
	PEG-10 Acrylate/Perfluorohexylethyl Acrylate Copolymer		
	PEG-10 Nonafluorohexyl Dimethicone Copolymer		
	PEG-10 Trifluoropropyl Dimethicone Copolymer		
	PEG-4 Trifluoropropyl Dimethicone Copolymer		
	PEG-8 Trifluoropropyl Dimethicone Copolymer		
	Pentafluoropropane	460-73-1	
	Perfluoro Dimethylethylpentane	50285-18-2	
	Perfluoro t-Butylcyclohexane	84808-64-0	
	Perfluorobutoxydiglycol Difluoroethoxy Propyl Trimethoxysilane		
	Perfluorobutylcyclohexane	374-60-7	
Perfluorobutylethyl Dimethicone			
Perfluorocaprylyl Bromide	423-55-2		
Perfluorocaprylyl Triethoxysilylethyl Methicone			
Perfluorocyclohexylmethanol	28788-68-3		



Chemical Class	Chemical Name	CAS Number	Elimination Date
PFAS (Continued)	Perfluorodecalin	306-94-5	31 st December 2024
	Perfluorodimethylcyclohexane	26637-68-3, 335-27-3	
	Perfluoroheptane	335-57-9	
	Perfluorohexane	355-42-0	
	Perfluorohexyl Ethylphosphonic Acid	252237-40-4	
	Perfluorohexylethoxy Dimethicone		
	Perfluorohexylethyl Dimethylbutyl Ether	210896-25-6	
	Perfluorohexylethyl Triethoxysilane	51851-37-7	
	Perfluoroisohexane	355-04-4	
	Perfluoromethylcyclohexane	355-02-2	
	Perfluoromethylcyclopentane	1805-22-7	
	Perfluoromethyldecalin	51294-16-7	
	Perfluorononanoic acid	375-95-1	
	Perfluorononyl Dimethicone	882878-48-0	
	Perfluorononyl Dimethicone/Methicone/Amodimethicone Crosspolymer		
	Perfluorononyl Octyldodecyl Glycol Grapeseedate		
	Perfluorononyl Octyldodecyl Glycol Meadowfoamate		
	Perfluorononylethyl Carboxy PEG-7 Dimethicone Phosphate		
	Perfluorononylethyl Carboxydecyl Behenyl Dimethicone		
	Perfluorononylethyl Carboxydecyl Hexacosyl Dimethicone		
	Perfluorononylethyl Carboxydecyl Lauryl Dimethicone		
	Perfluorononylethyl Carboxydecyl Lauryl/Behenyl Dimethicone		
	Perfluorononylethyl Carboxydecyl PEG-10 Dimethicone		
Perfluorononylethyl Carboxydecyl PEG-8 Dimethicone			
Perfluorononylethyl Dimethicone/Methicone Copolymer			
Perfluorononylethyl PEG-8 Dimethicone			



Chemical Class	Chemical Name	CAS Number	Elimination Date
PFAS (Continued)	Perfluorononylethyl PEG-8 Phenylisopropyl Dimethicone		31 st December 2024
	Perfluorononylethyl Stearyl Dimethicone		
	Perfluorooctanoic acid	335-67-1	
	Perfluorooctylethyl Triethoxysilane	101947-16-4	
	Perfluorooctylethyl Trimethoxysilane	83048-65-1	
	Perfluorooctylethyl Trisiloxane	163921-85-5	
	Perfluorooctylethyl/Diphenyl Dimethicone Copolymer		
	Perfluoroperhydrobenzyl Tetralin	116265-66-8	
	Perfluoroperhydrofluorene	307-08-4	
	Perfluoroperhydrophenanthrene	306-91-2	
	Perfluoropropane	76-19-7	
	Perfluoropropoxy (Perfluoro PPG)-9 Dimethylaminopropylamide		
	Perfluoropropylene/Vinylidene Difluoride Copolymer	9011-17-0	
	Perfluorotetralin	2342-07-6.	
	Polychlorotrifluoroethylene	9002-83-9	
	Polyperfluoroethoxymethoxy Difluoroethyl PEG Diisostearate		
	Polyperfluoroethoxymethoxy Difluoroethyl PEG Ether	162492-15-1	
	Polyperfluoroethoxymethoxy Difluoroethyl PEG Phosphate		
	Polyperfluoroethoxymethoxy Difluorohydroxyethyl Ether	88645-29-8	
	Polyperfluoroethoxymethoxy Difluoromethyl Distearamide		
	Polyperfluoroethoxymethoxy Difluoromethyl Ether	161075-02-1	
	Polyperfluoroethoxymethoxy PEG-2 Phosphate	162567-74-0	
	Polyperfluoroisopropyl Ether		
	Polyperfluoromethylisopropyl Ether	69991-67-9	
	Polyperfluoroperhydrophenanthrene		
	Polytetrafluoroethylene Acetoxypentyl Betaine		
Potassium heptadecafluorooctane-1-sulfonate	2795-39-3		



Chemical Class	Chemical Name	CAS Number	Elimination Date
PFAS (Continued)	Potassium Perfluorohexyl Ethylphosphate	1224952-82-2	31 st December 2024
	PTFE	9002-84-0	
	Sodium heptadecafluorononanoate	21049-39-8	
	Sodium nonadecafluorodecanoate	3830-45-3	
	Sodium Perfluorohexyl Ethylphosphonate	1189052-95-6	
	Stearyl Methacrylate/Perfluorooctylethyl Methacrylate Copolymer		
	TEA-C8-18 Perfluoroalkylethyl Phosphate		
	TEA-Perfluorohexyl Ethylphosphates		
	Trifluoromethyl C1-4 Alkyl Dimethicone		
	Trifluoropropyl Cyclopentasiloxane		
	Trifluoropropyl Cyclotetrasiloxane	429-67-4	
	Trifluoropropyl Cyclotrisiloxane	2374-14-3	
	Trifluoropropyl Dimethicone	115361-68-7	
	Trifluoropropyl Dimethicone/PEG-10 Crosspolymer		
	Trifluoropropyl Dimethicone/Trifluoropropyl Divinyldimethicone Crosspolymer		
	Trifluoropropyl Dimethicone/Vinyl Trifluoropropyl Dimethicone/Silsesquioxane Crosspolymer		
	Trifluoropropyl Dimethiconol		
Trifluoropropyl Methicone	63148-56-1		

¹ SPF products are classed as OTC Drugs in the US and Canada. Chemicals names are EU INCI names with the US/Canadian OTC name in brackets if different.

² NOTES:

Other synonyms may be used for per- and poly- fluorinated chemicals.

The above list of PFAS chemicals is non-exhaustive, reference should also be made (but not limited) to the following lists:

<https://www.saferstates.com/toxic-chemicals/pfas/>

<https://comptox.epa.gov/dashboard/chemical-lists/pfasmaster>

<https://www.oecd.org/chemicalsafety/risk-management/global-database-of-per-and-polyfluoroalkyl-substances.xlsx>



3. Stewardship List (SL)

The chemical listed below are neither Prohibited or slated for Elimination at the date of issue of this document.

It is the decision of the No7 Beauty Company, Boots UK, WBA Global Sourcing and Walgreens technical and commercial teams to determine if they wish to prohibit or restrict the use of any chemicals listed below at the time of any NPD briefing to suppliers. Any such additional requirements to prohibit or restrict will be explicitly specified in the product brief.

Function	Chemical	CAS No:	Commentary
Antioxidant	BHA (Butylated Hydroxyanisole)	25013-16-5	Under scrutiny due to being suspected endocrine disrupters. Listed by State of California in Proposition 65.
	BHT (Butylated Hydroxytoluene)	128-37-0	Under scrutiny due to being suspected endocrine disrupters. Suitable alternative anti-oxidants are widely available.
Color	Resorcinol	108-46-3	Under scrutiny due to being a suspected endocrine disrupter. Classified as a Skin allergen.
Preservative	Methylisothiazolinone	2682-20-4	Significant environmental concerns as well as human skin allergens.
	Methylchlorisothiazolinone	26172-55-4	
Paraben	Butylparaben	94-26-8	Classified as a Substance of Very High Concern (SVHC) in EU.
	Ethylparaben	120-47-8	Future regulatory activity to further restrict or prohibit is possible. WBA Customers may prefer not to see Paraben listed as an ingredient.
	Methylparaben	99-76-3	
	Propylparaben	94-13-3	Under scrutiny due to being a suspected endocrine disrupter.
Plastic	Microplastics	Various	Proposed EU legislation to prohibit use of microplastics is likely to be published in late 2021/early 2022 with a 4-6 year time period to reformulated. US State of California has similar proposals.



Silicones	Cyclopentasiloxane (D5)	541-02-6	EU legislation to restrict use of D5/D6 in leave-on products (max 0.1%) due to chemicals being classified as environmental hazards will be published during 2022 with a 5-year time period to reformulate.
	Cyclohexasiloxane (D6)	540-97-6	NOTE – D5/D6 are already restricted from 31 st January 2020 to max 0.1% in rinse-off products under EU and UK REACH Legislation.
UV filters	Benzophenone-1	131-56-6	As other benzophenones are under scrutiny it is possible that it will also be reviewed for human and/or environmental toxicity.
	Benzophenone-3* (Oxybenzone)	131-57-7	Under scrutiny due to being suspected endocrine disrupter. Prohibited or proposals to prohibit in some US states/territories due to Alleged reef damaging properties
	Benzophenone-4* (Sulisobenzone)	4065-45-6	As other benzophenones are under scrutiny it is possible that it will also be reviewed for human and/or environmental toxicity. Suitable product protectant chemicals are widely available.
	Benzophenone-5	6628-37-1	Under scrutiny due to being suspected endocrine disrupter.
	Homosalate*	118-56-9	Under scrutiny due to being suspected endocrine disrupter.
	Octocrylene*	6197-30-4	Under scrutiny due to being suspected endocrine disrupter. Prohibited, or proposals to prohibit, in some US states/territories due to alleged reef damaging properties. Will be classified in the EU as a Substance of Very High Concern (SVHC) due to environmental toxicity.
	Ethylhexyl Methoxycinnamate* (Octinoxate)	5466-77-3	Under scrutiny due to being a suspected endocrine disrupter. Prohibited, or proposals to prohibit, in some US states/territories due to alleged reef damaging properties.

*Sunscreen products are classed as OTC Drugs in the US and Canada. Chemicals names listed are the EU INCI names with the US/Canadian OTC name in brackets if different.

NOTE: Those listed without a * are not approved OTC sunscreen chemicals in the US and/or Canada.