



H&M GROUP CHEMICAL RESTRICTIONS 2024

RESTRICTED SUBSTANCES LIST (RSL)

Candles

Product Compliance Cosmetic & Chemical Products

Valid for all brands in the H&M Group.

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1. General

H&M Group Chemical Restrictions consist of several parts regarding different product types; this document concerns Chemical Restrictions for Candles.

An introduction to and general information about the H&M Group Chemical Restrictions are available in a separate document: *H&M Group Restricted Substance List (RSL) Introduction and Commitment - All Product Types, document ID 00432*. Please read that document and refer to the examples provided there, before proceeding with the product specific restrictions.

Each limit specified in this document is valid for homogeneous parts of the concerned product if not otherwise stated. Test methods are specified when relevant in this document. In case of undated test method, the latest version is valid.

2. Definitions

Concentration Limit	The substance must not be present in the product at concentrations above this limit.
Not Detected	The substance must not be present in the finished product at concentrations above the analytical reporting limit.
Usage ban	The substance must not be used in production and it must not be added to the product. ¹
Homogeneous	Uniform composition throughout, i.e. a material that cannot be mechanically disjointed into different materials.
Substances defined as hazardous due to intrinsic properties	Persistent, bioaccumulative and toxic (PBT), very persistent and very bioaccumulative (vPvB), carcinogenic, mutagenic and toxic for reproduction (CMR), endocrine disruptors (ED) or equivalent concern, according to EU REACH article 57.

3. Abbreviations

CAS no	Chemical Abstracts Service number, an identification number for chemicals in this database.
cSt	centiStokes, which is the same as 1mm ² /s. This is the unit used for kinematic viscosity.
Excl.	Excluding
Incl.	Including
PDR	H&M group Production and Documentation Requirements
ppm	Parts per million, which is the same as mg/kg.
Percentage	Percentage is weight by weight, % w/w
REACH	Registration, Evaluation, Authorisation and restriction of Chemicals
CLP	Classification, Labelling and Packaging
SVHC	Candidate List of Substances of Very High Concern ²

¹ Impurities at low concentrations of these substances may be accepted only if technically unavoidable due to e.g. raw materials, formation in the manufacturing process, storage or packaging.

² [Candidate List of substances of very high concern for Authorisation - ECHA \(europa.eu\)](https://echa.europa.eu/candidate-list-table)

4. Requirements – all Candles

If a group of substances is marked with an asterisk* in the table below each included substance is specified in Appendix. Test methods are specified in tables, in case of undated test method, the latest version is valid.

Requirement	Limit/Requirement
Safety Data Sheet (SDS) Structure and contents as specified in REACH Article 31 ³	A Safety Data Sheet (SDS) must be approved by H&M group before production begins
SVHC Check the ECHA website for the updated list ⁴	1000 ppm, except if lower limit applies as per other parts of this document
Substances defined as hazardous due to intrinsic properties as specified in REACH Article 57 ⁵	1000 ppm, except if lower limit applies as per other parts of this document
Product Safety Directive	All candles must comply with General Product Safety Directive 2001/95/EC
Scented candles	All scented candles containing fragrance oils must fulfill International Fragrance Association (IFRA) standard
Lead in wick	100 ppm
Metal cored candle wicks	Usage ban
Microplastics in accordance with Commission Regulation (EU) 2023/2055 of 25 September 2023 amending Annex XVII to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) as regards synthetic polymer microparticles.	
Microbeads (Intentionally added solid plastic particles)	Usage ban
Loose glitters sold in a separate package	Usage ban
H&M group Production and Documentation Requirements for Candles (PDR candles)⁶	Production must follow H&M group PDR Candles, which include requirements for: Safety data sheets, candle content lists, testing and certificate of analysis.
Pigment Violet 29 CAS 81-33-4	Usage ban
Oil of bergamot	≥ 2 % prohibited
Substances on the California Proposition 65 list⁷	Usage ban
Palm Oil	Palm oil must be certified as sustainable by RSPO (Roundtable on Sustainable Palm Oil). RSPO segregated or mass balance certified palm oil is accepted. Palm oil derivatives are exempt from this requirement.
Benzophenone -3 CAS 131-57-7	Usage ban
Phthalates- including all other esters of ortho-phthalic acid Diisodecyl phthalate (DiDP) CAS 26761-40-0; 68515-49-1 Diundecyl phthalate (DUP)	Usage ban







³ REACH Regulation (EC) No 1907/2006 <https://eur-lex.europa.eu/legal-content/EN/TXT/PDF/?uri=CELEX:32006R1907&qid=1650627762519&from=EN>

⁴ Candidate List of substances of very high concern for Authorisation - ECHA (europa.eu)


⁵ <http://eur-lex.europa.eu/legal-content/EN/TXT/HTML/?uri=CELEX:02006R1907-20150601&from=EN>

⁶ Download the document at H&M group Supplier Portal.

⁷ Proposition 65 list, <http://oehha.ca.gov/proposition-65/proposition-65-list>

Requirement	Limit/Requirement	
CAS 3648-20-2 Di-cyclohexyl phthalate (DCHP) CAS 84-61-7 Di-n-octyl phthalate (DnOP) CAS 117-84-0 Diethyl phthalate (DEP) CAS 84-66-2 Dihexyl phthalate(DHP) CAS 84-75-3		
Benzophenone-1 CAS 131-56-6	Usage ban	
Benzophenone-2 CAS 131-55-5	Usage ban	
Triphenyl phosphate CAS 115-86-6	Usage ban	
Propylparaben CAS 94-13-3	Usage ban	
Butylparaben CAS 94 -26-8	Usage ban	
methyl tertiary butyl ether (mTBe) CAS 1634-04-4	Usage ban	
4,4'-dihydroxy benzophenone CAS 611-99-4	Usage ban	
Candle classification⁸	Formulations that result in the pictogram GHS06 "Skull over crossed bones" are banned.	
	Formulations that result in the pictogram GHS08 "Severe health hazard" are banned.	
	Formulations that result in the pictogram GHS05 "Corrosive" are banned.	
	Formulations that result in the pictogram GHS01 "Explosive" are banned.	
	Formulations that result in the pictogram GHS04 "Gas under pressure" are banned.	
	Formulations that result in the pictogram GHS03 "Oxidizing" are banned.	

⁸ Classification according to the CLP Regulation (EC) No 1272/2008.

Requirement	Limit/Requirement	
	Formulations that result in the pictogram GHS09 "Dead fish and tree" are banned.	
	Formulations that result in the classification Acute Toxicity Cat 4; Oral, Dermal and Inhalation toxicity.	

5. Colours, pigments, dyes and lacquers

Candle colours classified as following classes according to CLP Regulation (EC) No. 1272/2008 are banned:	
Acute toxicity	Category code 1, 2, 3 or 4
Carcinogenicity	Category code 1A, 1B or 2
Germ cell mutagenicity	Category code 1A, 1B or 2
Reproductive toxicity	Category code 1A, 1B or 2

Restricted substances in the finished candle:		
Restricted substances	CAS no	Requirement
Toluene	108-88-3	5 ppm
Benzene	71-43-2	0.5 ppm
Total Xylenes	1330-20-7	20 ppm
Ethylbenzene	100-41-4	20 ppm
Benzo[a]pyrene	50-32-8	1 ppm
Total Polycyclic Aromatic Hydrocarbons (PAH)*	Various	10 ppm
Azo Dyes & Pigments:		
4-aminodiphenyl	92-67-1	20 ppm per listed amine
Benzidine	92-87-5	
4-Chloro-o-toluidine	95-69-2	
2-Naphthylamine	91-59-8	
o-Aminoazotoluene	97-56-3	
2-Amino-4-nitrotoluene	99-55-8	
2,4-Diaminoanisole	615-05-4	
4,4'-Diaminodiphenylmethane	101-77-9	
3,3'-Dichlorobenzidine	91-94-1	
3,3'-Dimethoxybenzidine (o-Dianisidine)	119-90-4	
3,3'-Dimethylbenzidine (o-Tolidine)	119-93-7	
3,3'-Dimethyl-4,4'-diaminodiphenylmethane	838-88-0	
p-Chloroaniline	106-47-8	
p-Cresidine	120-71-8	
4,4'-Methylene-bis-(2-chloroaniline)	101-14-4	
4,4'-Oxydianiline	101-80-4	
4,4'-Thiodianiline	139-65-1	
2,4-Toluenediamine	95-80-7	

Restricted substances in the finished candle:		
Restricted substances	CAS no	Requirement
o-Toluidine	95-53-4	
2,4,5-Trimethylaniline	137-17-7	
o-Anisidine	90-04-0	
p-Aminoazobenzene	60-09-3	
2,4-Xylidine	95-68-1	
2,6-Xylidine	87-62-7	

6. Additional Restrictions – Australia

For all substances listed below, any mixtures, salts and derivatives of the listed substances are also prohibited in the below listed concentrations, unless stated otherwise.

Restricted substances	Requirement
Australia AICS inventory list ⁹	All substances in <i>scented candles</i> must be listed in the AICS Inventory of Australia or exempt/excluded from listing. If the substance is subject to a Secondary Notification Conditions , requirements must be fulfilled. Please note that this requirement is NOT applicable for <i>unscented candles</i> .
Substances listed in schedule 1-10 of the Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) of the Poison Standard ¹⁰	Substances listed in schedules 1-10 are prohibited, unless present in concentrations <i>below</i> listing in the schedules.
Anise oil	≤ 50 %
Basil oil	≤ 5 % methyl chavicol in the Basil oil
Cassia oil	≤ 2 %
Cinnamon bark oil	≤ 2 %
Marjoram oil	≤ 50 %
Nutmeg oil	≤ 50 %
Thyme oil	≤ 50 %
Camphor as a natural component in essential oils CAS 76-22-2	≤ 2,5 %
Camphor as a natural component in essential oils in rosemary oil, sage oil (Spanish), or lavandin oils CAS 76-22-2	≤ 10 %
Direct red 254, CAS 101380-00-1	≤ 30 %
Isoeugenol CAS 97-54-1	≤ 10 %

⁹ The Australian Inventory of Chemical Substances (AICS), [Search the industrial chemicals inventory | Australian Industrial Chemicals Introduction Scheme \(AICIS\)](#)

¹⁰ POISONS STANDARD, Standard for the Uniform Scheduling of Medicines and Poisons, <https://www.tga.gov.au/publication/poisons-standard-susmp>

7. Additional Restrictions – Canada

Restricted substances	Requirement
Canadian chemical inventory, Domestic Substances List ¹¹	All substances must be either listed on the Canadian Inventory, Domestic Substances List or be exempted/excluded from listing. If the substance is subject to a Significant New Activity (SNAc), all requirements must be fulfilled.

8. Additional Restrictions – New Zealand

Restricted substances	Requirement
New Zealand Inventory of Chemicals, NZIoC	All <i>hazardous</i> substances contributing to the products classification (including hazardous perfumes) must be listed on the New Zealand Inventory of Chemicals ^{12,13} . The requirement is not applicable for <i>the fragrance</i> in scented candles.

9. Additional Restrictions – USA

Restricted substances	CAS no	Requirement
Benzophenone	119-61-9	Not detected
D-Pulegone	89-82-7	Not detected
Estragole	140-67-0	Not detected
Methyleugenol (1,2-Dimethoxy-4-(2-propenyl)-benzene)	93-15-2	Not detected
Methyl isobutyl ketone (MIBK)	108-10-1	Not detected
Citronella oil	8000-29-1	Usage ban

¹¹ Domestic Substances List, <http://www.ec.gc.ca/lcpe-cepa/default.asp?lang=En&n=5f213fa8-1>

¹² New Zealand Inventory of Chemicals, NZIoC, <https://www.epa.govt.nz/database-search/>

¹³ Hazardous substances that are not listed on the inventory can be registered by H&M Group. Please contact your H&M contact if your hazardous substance(s) is *NOT* listed on the New Zealand inventory and it contributes to the hazard classification of the product. Please attach a safety data sheet for the substance, the raw-material where the substance is present or the final product where the substance will be present.
Mark the subject line with “New Zealand inventory”.

10. Additional Restrictions-Switzerland

The substances mentioned below are fundamentally prohibited from being used and placed on the market in Switzerland¹⁴.

Requirement/Restricted substance/CAS no	Limit/Requirement
4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated [Includes well-defined substances and UVCB substances, polymers, and homologues] / CAS -	Usage ban
4-Nonylphenol, branched and linear, ethoxylated [substances with a linear and/or branched alkyl chain with a carbon number of 9 covalently bound in position 4 to phenol, ethoxylated covering UVCB- and well-defined substances, polymers, and homologues, which include any of the individual isomers and/or combinations thereof] / CAS -	Usage ban
5-sec-Butyl-2-(2,4-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [1], 5-sec-Butyl-2-(4,6-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [2] [includes each individual stereoisomer of [1] and [2] or any combination thereof] CAS -	Usage ban
2-(2H-Benzotriazol-2-yl)-4,6-di-tert-pentylphenol (UV-328) CAS25973-55-1	Usage ban
Sodium peroxometaborate CAS 7632-04-4	Usage ban
Sodium perborate; perboric acid, sodium salt CAS: 15120-21-5; 11138-47-9	Usage ban
2-(2H-Benzotriazol-2-yl)-4,6-di-tert-pentylphenol (UV-328) CAS 25973-55-1	Usage ban

¹⁴ [SR 814.81 - Ordinance of 18 May 2005 on the Reduction of Risks relating to the Use of Certain Particularly Dangerous Substances, Preparations and Articles \(Chemical Risk Reduction Ordinance, ORRChem\) \(admin.ch\).](#)