



# H&M GROUP CHEMICAL RESTRICTIONS 2022

## RESTRICTED SUBSTANCES LIST (RSL)

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### Candles

Global Product Compliance Department Valid for all brands in the H&M Group.



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## 1. General

Out of concern for the health of customers, as well as for the environment and working conditions, H&M group has established H&M group Chemical Restrictions for all products.

H&M group Chemical Restrictions covers the Manufacturing Restricted Substances List and the Restricted Substances Lists. The Restricted Substances Lists consists of 11 stand-alone parts which are divided on product type: Packaging, Apparel/Accessories/Footwear/Soft Home Interior Products, Food Contact Products, Candles, Hardline, Chemical Products, Toys, Electrical and Electronic Products and Batteries, Medical Devices and Aerosols Dispensers.

Always follow all relevant latest parts of H&M group Chemical Restrictions.

In addition to this part of the H&M group Chemical Restrictions, production of Candles must also fulfill H&M group Manufacturing Restricted Substances List (MRSL).

***The official and valid version of this document is in English. Any translation of the document is prepared for reference only. H&M group accepts no liability for any mistakes done in the translation.***

If a product is sold in a packaging, it must also comply with H&M group Chemical Restrictions Packaging.

## 2. Commitment

By accepting H&M group Standard Purchase Conditions, the Supplier commits to comply with H&M group Chemical Restrictions. It is the Supplier's responsibility to assure compliance with H&M group Chemical Restrictions and to inform all their upstream suppliers and subcontractors about the content of H&M group Chemical Restrictions.




By accepting H&M group Standard Purchase Conditions, each Supplier acknowledges that H&M group reserves the right to:

- Inspect and test any product, any part of production and/or packaging, by any listed or appropriate method, at any time or at any stage of production.
- Cancel the Order, or, if the products are already delivered, return the products to the Supplier if the product, production and/or packaging do not correspond to the H&M group Chemical Restrictions.
- Hold the Supplier responsible for any damage caused by the ordered product if the product, production and/or packaging do not correspond to the H&M group Chemical Restrictions.
- Receive the Safety Data Sheets (SDS) for all substances and preparations (dyes, colorants, solvents, chemicals etc.) used in the production of a specific Order.

In the case of contradictory test results, H&M group's test results will prevail.

### 3. Examples

All details on your product must comply with H&M group Chemical Restrictions, see examples below. The examples do not claim to be complete.

|   |  |
|---|--|
|    | <ul style="list-style-type: none"><li>➤ <i>Candles, scented and unscented; wax blend and wick:</i></li><li>– <i>Follow H&amp;M group Chemical Restrictions for Candles</i></li></ul> |
|   | <ul style="list-style-type: none"><li>➤ <i>Candle containers (including metal wick holder):</i></li><li>– <i>Follow H&amp;M group Chemical Restrictions for Hardline</i></li></ul>   |
|  | <ul style="list-style-type: none"><li>➤ <i>Candle packaging:</i></li><li>– <i>Follow H&amp;M group Chemical Restrictions for Packaging</i></li></ul>                                 |

## 4. 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. <sup>1</sup>   |
| 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. |

## 5. Abbreviations



|            |   |
|------------|---|
| CAS no     | Chemical Abstracts Service number, an identification number for chemicals in this database.           |
| cSt        | centiStokes, which is the same as 1mm <sup>2</sup> /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 <sup>2</sup>  |

<sup>1</sup> 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.

<sup>2</sup> <https://echa.europa.eu/candidate-list-table>

## 6. 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  |   |
|---|--|---|
| <b>Safety Data Sheet (SDS)</b><br>Structure and contents as specified in REACH Article 31 <sup>3</sup>  | A Safety Data Sheet (SDS) must be approved by H&M group before production begins   |   |
| <b>SVHC</b><br>Check the ECHA website for the updated list <sup>4</sup>   | 1000 ppm, except if lower limit applies as per other parts of this document  |   |
| <b>Substances defined as hazardous due to intrinsic properties</b> as specified in REACH Article 57 <sup>5</sup>  | 1000 ppm, except if lower limit applies as per other parts of this document  |   |
| <b>Product Safety Directive</b>   | All candles must comply with General Product Safety Directive 2001/95/EC   |   |
| <b>Scented candles</b>  | All scented candles containing fragrance oils must fulfill International Fragrance Association (IFRA) standard   |   |
| <b>Lead in wick</b>   | 100 ppm  |   |
| <b>Metal cored candle wicks</b>   | Usage ban  |   |
| <b>H&amp;M group Production and Documentation Requirements for Candles (PDR candles)<sup>6</sup></b>  | Production must follow H&M group PDR Candles, which include requirements for: Safety data sheets, candle content lists, testing and certificate of analysis.   |   |
| <b>Pigment Violet 29, CAS: 81-33-4</b>  | Usage ban  |   |
| <b>Oil of bergamot</b>  | ≥ 2 % prohibited   |   |
| <b>Substances on the California Proposition 65 list<sup>7</sup></b>   | Usage ban  |   |
| <b>Palm Oil</b>   | 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. |   |
| <b>Phthalates- including all other esters of ortho-phthalic acid</b><br>Diisodecyl phthalate (DiDP) / 26761-40-0; 68515-49-1<br>Diundecyl phthalate (DUP) / 3648-20-2<br>Di-cyclohexyl phthalate (DCHP) / 84-61-7<br>Di-n-octyl phthalate (DnOP) / 117-84-0 | Usage ban  |   |
| <b>Candle classification<sup>8</sup></b>  | Formulations that result in the pictogram GHS06 “Skull over crossed bones” are banned.   |  |
|   | Formulations that result in the pictogram GHS08 “Severe health hazard”.  |  |

<sup>3</sup> REACH Regulation (EC) No 1907/2006 <http://eur-lex.europa.eu/index.htm>






<sup>4</sup> [http://echa.europa.eu/chem\\_data/authorisation\\_process/candidate\\_list\\_table\\_en.asp](http://echa.europa.eu/chem_data/authorisation_process/candidate_list_table_en.asp)

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

<sup>6</sup> Download the document at H&M group Supplier Portal.

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

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

| Requirement | Limit/Requirement  |   |
|-------------|--|---|
|             | Formulations that result in the pictogram GHS05 "Corrosive".   |  |
|             | Formulations that result in the pictogram GHS01 "Explosive".   |  |
|             | Formulations that result in the pictogram GHS04 "Gas under pressure".                                      |  |
|             | Formulations that result in the pictogram GHS03 "Oxidizing".   |  |
|             | Formulations that result in the pictogram GHS09 "Dead fish and tree".                                      |  |
|             | Formulations that result in the classification Acute Toxicity Cat 4; Oral, Dermal and Inhalation toxicity. |   |

## 7. 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                  |
| <b>Azo Dyes &amp; Pigments:</b>               |           |                         |
| 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   |                         |



| Restricted substances in the finished candle: |          |             |
|---|----------|-------------|
| Restricted substances                         | CAS no   | Requirement |
| 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  |             |
| 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  |             |

## 8. 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  |
|---|--|
| <b>Australia AICS inventory list<sup>9</sup></b>  | All substances in <i>scented candles</i> must be listed in the AICS Inventory of Australia or exempt/excluded from listing.<br><br>If the substance is subject to a <b>Secondary Notification Conditions</b> , requirements must be fulfilled.<br><br>Please note that this requirement is NOT applicable for <i>unscented candles</i> . |
| <b>Substances listed in schedule 1-10 of the Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) of the Poison Standard<sup>10</sup></b> | Substances listed in schedules 1-10 are prohibited, unless present in concentrations <i>below</i> listing in the schedules.  |
| <b>Anise oil</b>  | ≤ 50 %   |
| <b>Basil oil</b>  | ≤ 5 % methyl chavicol in the Basil oil   |
| <b>Cassia oil</b>   | ≤ 2 %  |
| <b>Cinnamon bark oil</b>  | ≤ 2 %  |
| <b>Marjoram oil</b>   | ≤ 50 %   |
| <b>Nutmeg oil</b>   | ≤ 50 %   |
| <b>Thyme oil</b>  | ≤ 50 %   |

<sup>9</sup> The Australian Inventory of Chemical Substances (AICS), <https://www.nicnas.gov.au/chemicals-inventory-AICS>

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

| Restricted substances  | Requirement |
|--|-------------|
| Camphor as a natural component in essential oils<br>CAS: 76-22-2   | ≤ 2,5 %     |
| Camphor as a natural component in essential oils in rosemary oil, sage oil (Spanish), or lavandin oils<br>CAS: 76-22-2 | ≤ 10 %      |
| Direct red 254, CAS: 101380-00-1   | ≤ 30 %      |
| Isoeugenol CAS: 97-54-1  | ≤ 10 %      |

## 9. Additional Restrictions – Canada

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

## 10. 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 <sup>12,13</sup> .<br><br>The requirement is not applicable for <i>the fragrance</i> in scented candles. |

## 11. 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    |

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

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

<sup>13</sup> 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”.

## 12. Additional Restrictions – Russia

According to Russian regulations, in order to be able to sell candles in Russia, all substances and mixtures contributing to the candles must be listed in Russia National Existing Chemical Substance Inventory.

| Requirement/Restricted substance/CAS no               | Limit/Requirement   |
|---|---|
| Russia National Existing Chemical Substance Inventory | All hazardous substances and mixtures contributing to the product's classification (including hazardous perfumes) must be listed on the Russia National Existing Chemical Substance Inventory. <sup>14,15</sup> |

Version history information is available in the separate file *History and Sources Candles*.

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<sup>14</sup> Russia National Existing Chemical Substance Inventory, <https://gisp.gov.ru/cheminv/pub/app/search/>

<sup>15</sup> Please contact your H&M contact person if your substance(s) and mixture (s) is not in the Russia National Existing Chemical Substance Inventory List.