

## UPM Restricted Chemical Substances List

UPM RSL is divided to two sections. Section 1 lists the chemical substances, which are not to be used in UPM's production processes, nor must they be included in UPM's products in unreacted form. Section 2 lists the chemical substances that can have restricted use in some applications but suppliers are required to report to UPM if supplied products contain these substances. In this case suppliers should give the name, CAS –number and concentration of the restricted substance in weight % of the product as it is delivered to UPM. The prohibition (section1) and the reporting requirement (section2) refer to each deliberate use of the chemical substances specified in the below mentioned regulations. The default threshold level is set to 0.1 % by weight of the product unless a different lower limit is specified by legislation, the industry standard or agreement. The prohibition or reporting requirement doesn't apply when a chemical substance occurs in the form of impurities in a specific product, that is, non-desired occurrence in very low concentrations, not exceeding 0,1 per cent by mass under any circumstances.

UPM will inform its' suppliers when a new version of the UPM Restricted Substances List has been published. Modifications are to be expected in an annual basis. For convenience changes compared to the previous version are highlighted. When new substances are added to lists of substances the prohibition or reporting requirements shall be fulfilled within 6 months after the substance has been added to the cited list, unless faster action is required by the regulators.

Thank you for cooperation in ensuring that UPM products are compliant with the UPM RSL requirements.

Table 1. UPM RSL ver. 1/2018

Section1: Substances that shall not be used in UPM products		
	Regulation	Links to reference page (lists of substances)
1*!	REACH / Regulation 1907/2006/EC Annex XVII or Annex XIV	<a href="#">REACH Annex XVII</a> <a href="#">REACH Annex XIV</a>
2*!	Candidate List of Substances of Very High Concern (SVHC) for Authorization	<a href="#">ECHA Website - Candidate list</a>
3*!	EC No. 1272/2008 Classification, Labelling and Packaging of Substances and Mixtures: CMR-substances on category 1 and 2.	<a href="#">EC CLP 1272/2008</a>
4	Brominated flame retardants: Directive 2003/11/EC restricting use of pentabromodiphenyl ether & octabromodiphenyl ether	<a href="#">Directive 2003/11/EC</a>
5	RoHS 2 Directive 2015/863/EC	<a href="#">Delegated directive 2015/863/EC</a>
6	Perfluorooctane sulfonates (PFOS and PFOS-related chemicals) and/or perfluorooctane acid (PFOA) and/or its salts: Directive 2006/122/EC	<a href="#">Directive 2006/122/EC</a>
7	Triclosan: 2,4,4'-trichloro-2'-hydroxydiphenyl ether CAS3380-34-5, EU Commission Decision of 19 March 2010 under Directive 2002/72/EC	<a href="#">Commission Decision 19 March 2010</a>
8	Ozone depleting substances: Montreal protocol and EU Directive 2037/2000/EC	<a href="#">Montreal Protocol 2000</a> <a href="#">Directive 2037/2000/EC</a>
9	Ozone depleting substances: Indicative list of substances controlled under Regulation (EC) No 1005/2009 04 February 2011	<a href="#">EC 1005/ 2009</a>
10	Persistent Organic Pollutants (POPs): Regulation (EC) No 850/2004 and amending Directive 79/117/EEC, Stockholm Convention, UNEP 12 chemicals	<a href="#">POPs</a>
11	OSPAR: The list of chemicals for priority action, Part A	<a href="#">OSPAR list</a>



The Biofore  
Company

(2/2)  
Public  
19.09.2018  
UPM RSL ver.1/2018

12	HELCOM Recommendation 31E/1, Appendix 2	<a href="#">HELCOM Recommendation 31E/1</a>
13 !	California Proposition 65	<a href="#">OEHHA Proposition 65</a>
14	Bisphenols: 4,4'-(propane-2,2-diyl)diphenol (Bisphenol A) CAS 80-05-7, 4,4'-sulfonyldiphenol (Bisphenol S) CAS 80-09-1 or 2,2-Bis(4-hydroxyphenyl)butane (Bisphenol B) CAS 77-40-7	
15*	Phthalates (DEHP, DBP, BBP, DINP, DIDP, DnOP): EC 552/2009 (items 51&52) amending Annex XVII of REACH Regulation EC 1907/2006. Phthalates on toys and childcare products and US Consumer Product Safety Improvement Act, Section 108	<a href="#">EC 552/2009 amendment to EC 1907/2006. Phthalates on toys and childcare products</a> <a href="#">US Consumer Product Safety Improvement Act Section 108</a>
16* !	Priority Substances in the field of water policy: EU Directive 2013/39/EC, Finnish National regulations Chapter D and 40 CFR Part 423 Appendix A Water priority chemicals	<a href="#">Directive 2013/39/EC</a> <a href="#">National Regulation Ch D</a> <a href="#">40 CFR Part 432 App A</a>
<b>Section 2: Restricted substances. Suppliers are requested to inform UPM if supplied product contains substances covered by the regulations below.</b>		
17*	Biocidal active substances as defined by Biocidal Products Regulation (BPR, Regulation EU No 528/2012)	<a href="#">Biocidal active substances</a>
18	Allergens: Directive 2007/68/EC Annex III a	<a href="#">Directive 2007/68/EC Annex IIIa</a>
19 !	ChemSec "SIN List"	<a href="#">SIN List Database</a>
20 !	International Electrochemical Commission Standard (IEC) 62474 material declaration list	<a href="#">IEC 62474</a>
21 !	Global Automotive Declarable Substance List (GADSL)	<a href="#">Global Automotive Declarable Substance List</a>
22	"Animal-derived" content. We refer here to two main areas: 1) BSE /TSE, 2) Animal derived ingredients, such as fatty acid derivatives or casein.	
23	Genetically modified materials (GMO)	
24!	Intentionally manufactured nanomaterials. See EC nano material definition.	<a href="#">EU nanomaterial definition</a>
* = Legal requirement applying on pulp, paper or plywood production in EU countries. ! = Changes in regulation		

UPM-Kymmene Corporation

Alvar Aallon katu 1  
PO Box 380  
FI-00101 Helsinki  
Finland

Tel. +358204 15 111  
Fax +358204 15 110  
www.upm.com

Domicile Helsinki  
Business identity code 1041090-0

VAT No FI10410900