

**Order of 28 September 2023 laying down the list of substances with endocrine disrupting properties referred to in I and II of Article L. 5232-5 of the Public Health Code and the categories of products presenting a particular risk of exposure referred to in Article L. 5232-5 of the Public Health Code**

NOR: TREP2323345A

ELI: <https://www.legifrance.gouv.fr/eli/arrete/2023/9/28/TREP2323345A/jo/texte>

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Persons concerned: any person who places on the market products for consumers which, at the end of their manufacture, contain substances which the French Agency for Food, Environmental and Occupational Health & Safety (ANSES) classifies as having verified, presumed or suspected endocrine disrupting properties.

Purpose: This Order identifies:

substances with endocrine disrupting properties classified as verified and presumed, referred to in Article L. 5232-5 of the Public Health Code, including the information on the presence in the products referred to in Article R. 5232-19 of the Public Health Code must be made available to the public by the persons who place them on the market;

substances with endocrine disrupting properties classified as suspected, referred to in Article L. 5232-5 II of the Public Health Code;

categories of products with a particular risk of exposure to which the obligation to provide information on the presence of endocrine disrupting substances classified as suspected applies.

Entry into force: the text shall enter into force on the day after its publication.

Notice: Article 13-II of Law No 2020-105 of 10 February 2020 on combating waste and the circular economy, so-called 'AGEC', provides that any person placing products on the market for consumers containing substances for which the French Agency for Food, Environmental and Occupational Health & Safety (ANSES) classifies the endocrine disrupting properties as verified or suspected must "provide information to the public by electronic means, in an open, easily reusable and exploitable format by an automated processing system, for each of the products concerned, to identify the presence of such substances in those products". This obligation also applies to certain categories of products with a particular risk of exposure, for substances which endocrine disrupting properties are suspected by ANSES.

This obligation is in line with the objectives of the Second National Endocrine Disruptors Strategy (NSPE2). It aims to provide citizens with transparent information on the presence of substances with endocrine disrupting properties in products, in the sense of substances, mixtures, articles and foodstuffs.

The detailed rules for the application of this legislative provision have been laid down in Articles R. 5232-19 to R. 5232-22 of the Public Health Code. Article R. 5232-19 provides that a joint order of the ministers responsible for health and the environment sets out, on a proposal from ANSES: the list of substances with endocrine disrupting properties referred to in I of Article L. 5232-5, divided into two categories, verified and presumed, according to the level of scientific evidence; the list of substances with suspected endocrine disrupting properties referred to in Article L. 5232-5;

the categories of products presenting a particular risk of exposure referred to in II of Article L. 5232-5, with regard to the exposed populations, the conditions of use and disposal of those products and other relevant criteria.

For certain substances, due to their nutritional character (vitamins, minerals) and their health benefits up to a certain dose (higher safety limits), such as cholecalciferol (vitamin D3), the information on the presence of substances with endocrine disrupting properties will be adapted to indicate that these substances present health benefits according to the precautions for use and dosage specified on the package leaflet or labelling of the product and that in case of doubt the advice of a health professional should be sought. This specific information is provided for by the Order specifying the detailed rules relating to the content and the conditions for the presentation of the information provided for in I and II of Article L. 5232-5 of the Public Health Code. The substances covered by this specific information are listed in Tables Aa and Ba in the Annex to this Order.

References: the text can be found on the Légifrance website (<https://legifrance.gouv.fr>).

The Minister for Ecological Transition and Territorial Cohesion and the Minister for Health and Prevention,

Having regard to Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC

Having regard to Regulation (EC) No 1107/2009 of the European Parliament and of the Council of 21 October 2009 concerning the placing of plant protection products on the market and repealing Council Directives 79/117/EEC and 91/414/EEC

Having regard to Regulation (EU) No 528/2012 of the European Parliament and of the Council of 22 May 2012 concerning the making available on the market and use of biocidal products

Having regard to Directive (EU) 2015/1535 of the European Parliament and of the Council of 9 September 2015 laying down a procedure for the provision of information in the field of technical regulations and of rules on Information Society services, and in particular Notification

No 2021/0680/F;

Having regard to the Public Health Code, in particular Article L. 5232-5 in its wording resulting from Article 13 of Law No 2020-105 of 10 February 2020 on combating waste and the circular economy and Article R. 5232-19 thereof;

Having regard to the opinions of the French Agency for Food, Environmental and Occupational Health & Safety issued on 25 March 2021 and 29 September 2022,

Hereby decree:

### **Article 1**

Substances with verified and presumed endocrine disrupting properties referred to in I of Article L. 5232-5 of the Public Health Code are listed in Tables A and Aa in Annex I to this Order.

### **Article 2**

Substances with suspected endocrine disrupting properties referred to in Article L. 5232-5 II of the Public Health Code are listed in Tables B and Ba in Annex I to this Order.

### Article 3

The categories of products presenting a particular risk of exposure referred to in Article L. 5232-5 II of the Public Health Code are listed in Annex II to this Order.

### Article 4

The provisions of this Order shall enter into force on the day following the publication of this Order.

### Article 5

The Director-General for Risk Prevention and the Director-General for Health are responsible, each one as far as they are concerned, for the implementation of this Order, which shall be published in the Official Journal of the French Republic.

### Annex

Annexes

ANNEX I

LIST OF SUBSTANCES WITH ENDOCRINE DISRUPTING PROPERTIES REFERRED TO IN I AND II OF ARTICLE L. 5232-5 OF THE PUBLIC HEALTH CODE  
TABLE A

List of substances with verified and presumed endocrine disrupting properties referred to in Article L. 5232-5 of the Public Health Code

Substance name	CE number	CAS number	Substance included in the Candidate List of Substances of Very High Concern for Authorisation (published on the website of the European Chemicals Agency pursuant to Article 59(10) of the above-mentioned Regulation (EC) No 1907/2006 (REACH))
Isobutyl 4-hydroxybenzoate	224-208-8	4247-02-3	yes
4,4'-sulphonyldiphenol	201-	80-09-1	yes

	250-5		
(±)-1,7,7-trimethyl-3-[(4-methylphenyl)methylene]bicyclo[2.2.1]heptan-2-one covering any of the individual isomers and/or combinations thereof (4-MBC)	-	-	yes
(±)-1,7,7-trimethyl-3-[(4-methylphenyl)methylene]bicyclo[2.2.1]heptan-2-one	253-242-6	36861-47-9	yes
(3E)-1,7,7-trimethyl-3-(4-methylbenzylidene)bicyclo[2.2.1]heptan-2-one	-	1782069-81-1	yes
(1R,3E,4S)-1,7,7-trimethyl-3-(4-methylbenzylidene)bicyclo[2.2.1]heptan-2-one	-	95342-41-9	yes
(1S,3E,4R)-1,7,7-trimethyl-3-(4-methylbenzylidene)bicyclo[2.2.1]heptan-2-one	-	852541-30-1	yes
(1R,3Z,4S)-1,7,7-trimethyl-3-(4-methylbenzylidene)bicyclo[2.2.1]heptan-2-one	-	852541-21-0	yes
(1R,4S)-1,7,7-trimethyl-3-(4-methylbenzylidene)bicyclo[2.2.1]heptan-2-one	-	741687-98-9	yes
(1S,3Z,4R)-1,7,7-trimethyl-3-(4-methylbenzylidene)bicyclo[2.2.1]heptan-2-one	-	852541-25-4	yes
Phenol, alkylation products (mainly in para position) with C12-rich branched alkyl chains from oligomerisation, covering any individual isomers and/or combinations thereof (PDDP)	-	-	yes
Phenol, dodecyl-, branched	310-154-3	121158-58-5	yes
Phenol, 4-dodecyl, branched	-	210555-94-5	yes

Phenol, 4-isododecyl-	-	27147-75-7	yes
Phenol, tetrapropylene-	-	57427-55-1	yes
Phenol, (tetrapropenyl) derivatives	-	74499-35-7	yes
4-isododecylphenol	-	27459-10-5	yes
4,4-(1-methylpropylidene)bisphenol	201-025-1	77-40-7	yes
Butyl 4-hydroxybenzoate	202-318-7	94-26-8	yes
Tris(4-nonylphenyl, branched and linear) phosphite (TNPP) with $\geq 0.1\%$ w/w of 4-nonylphenol, branched and linear (4-NP)	-	-	yes
tris(4-nonylphenyl, branched) phosphite	-	-	yes
tris(nonylphenyl) phosphite	247-759-6	26523-78-4	yes
Phenol, 4-nonyl-, phosphite (3:1)	-	3050-88-2	yes
Phenol, p-sec-nonyl-, phosphite	-	106599-06-8	yes
Phenol, p-isononyl-, phosphite (3:1)	-	31631-13-7	yes
4-tert-butylphenol	202-	98-54-4	yes

	679-0		
1,7,7-trimethyl-3-(phenylmethylene)bicyclo[2.2.1]heptan-2-one	239-139-9	15087-24-8	yes
Dicyclohexyl phthalate	201-545-9	84-61-7	yes
Reaction products of 1,3,4-thiadiazolidine-2,5-dithione, formaldehyde and 4-heptylphenol, branched and linear (RP-HP)	-	-	yes
Reaction product of 1,3,4-thiadiazolidine-2,5-dithione, formaldehyde and phenol, heptyl derivs.	-	1471311-26-8	yes
Formaldehyde, reaction products with branched and linear heptylphenol, carbon disulfide and hydrazine	300-298-5	93925-00-9	yes
p-(1,1-dimethylpropyl)phenol	201-280-9	80-46-6	yes
4-heptylphenol, branched and linear	-	-	yes
Phenol, heptyl derivs.	276-743-1	72624-02-3	yes
4-heptylphenol	217-862-0	1987-50-4	yes
4-(3-ethylpentan-3-yl)phenol	-	37872-24-5	yes
4-(2-methylhexan-2-yl)phenol	-	30784-31-7	yes
4-(3,3-dimethylpentan-2-yl)phenol	-	911371-06-7	yes

4-(3-methylhexan-2-yl)phenol	-	854904-93-1	yes
4-(4,4-dimethylpentan-2-yl)phenol	-	911371-07-8	yes
4-(4-methylhexan-2-yl)phenol	-	71945-81-8	yes
4-(5-methylhexan-2-yl)phenol	-	857629-71-1	yes
4-(2,2-dimethylpentan-3-yl)phenol	-	861010-65-3	yes
4-(3-methylhexan-3-yl)phenol	-	30784-32-8	yes
4-(heptan-3-yl)phenol	-	6465-74-3	yes
4-(heptan-2-yl)phenol	-	6863-24-7	yes
4-(heptan-4-yl)phenol	-	6465-71-0	yes
4-(3-ethylpentyl)phenol	-	911370-98-4	yes
4-(3-methylhexyl)phenol	-	102570-52-5	yes
4-(4-methylhexyl)phenol	-	1139800-98-8	yes
4-(5-methylhexyl)phenol	-	100532-36-3	yes

4-(2,4-dimethylpentan-3-yl)phenol	-	1824346-00-0	yes
Phenol, 4-tert-heptyl-	-	288864-02-8	yes
Phenol, 4-(1-ethyl-1,2-dimethylpropyl)-	-	30784-27-1	yes
4-(2,3-dimethylpentan-2-yl)phenol	-	861011-60-1	yes
4-(2,4-dimethylpentan-2-yl)phenol	-	33104-11-9	yes
4-(2,3,3-trimethylbutan-2-yl)phenol	-	72861-06-4	yes
4-(5-methylhexan-3-yl)phenol	-	854904-92-0	yes
4,4'-isopropylidenediphenol	201-245-8	80-05-7	yes
4-Nonylphenol, branched and linear, ethoxylated	-	-	yes
Nonylphenol, ethoxylated (6,5-EO)	-	9016-45-9	yes
2-[2-(4-nonylphenoxy)ethoxy]ethanol	243-816-4	20427-84-3	yes
2-[2-[2-[2-(4-nonylphenoxy)ethoxy]ethoxy]ethoxy]ethanol	230-770-5	7311-27-5	yes
Nonylphenol, branched, ethoxylated	500-209-1	68412-54-4	yes

4-Nonylphenol, ethoxylated	500-045-0	26027-38-3	yes
Nonylphenol, ethoxylated	500-024-6	9016-45-9	yes
Nonylphenol, ethoxylated (8-EO)	-	9016-45-9	yes
Poly(oxy-1,2-ethanediyl), $\alpha$ -(nonylphenyl)- $\omega$ -hydroxy-, branched	-	68412-54-4	yes
Poly(oxy-1,2-ethanediyl), $\alpha$ -(nonylphenyl)- $\omega$ -hydroxy-, branched	-	68412-54-4	yes
20-(4-nonylphenoxy)-3,6,9,12,15,18-hexaoxaicosan-1-ol	248-743-1	27942-27-4	yes
Nonylphenol, ethoxylated (15-EO)	-	9016-45-9	yes
Nonylphenol, ethoxylated (10-EO)	-	9016-45-9	yes
26-(4-Nonylphenoxy)-3,6,9,12,15,18,21,24-octaoxahehexacosan -1-ol	-	14409-72-4	yes
2-{2-[4-(3,6-dimethylheptan-3-yl)phenoxy]ethoxy}ethanol	-	1119449-38-5	yes
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]	-	-	yes

Nonylphenol, ethoxylated (EO = 4)	-	-	yes
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]	-	-	yes
2-(4-nonylphenoxy)ethanol	-	104-35-8	yes
2-[2-(nonylphenoxy)ethoxy]ethanol	248-291-5	27176-93-8	yes
20-(nonylphenoxy)-3,6,9,12,15,18-hexaoxaicosan-1-ol	248-292-0	27177-03-3	yes
23-(nonylphenoxy)-3,6,9,12,15,18,21-heptaotricosan-1-ol	248-293-6	27177-05-5	yes
29-(nonylphenoxy)-3,6,9,12,15,18,21,24,27-nonaoxanonacosanol	248-294-1	27177-08-8	yes
26-(nonylphenoxy)-3,6,9,12,15,18,21,24-octaoxahexacosan-1-ol	255-695-5	42173-90-0	yes
44-(nonylphenoxy)-3,6,9,12,15,18,21,24,27,30,33,36,39,42-tetradecaoxatetracontanol	260-678-0	57321-10-5	yes
4-t-Nonylphenol-diethoxylate	-	156609-10-8	yes
3,6,9,12-Tetraoxatetradecan-1-ol, 14-(4-nonylphenoxy)-	-	20636-48-0	yes
14-(nonylphenoxy)-3,6,9,12-tetraoxatetradecan-1-ol	247-555-7	26264-02-8	yes

2-[4-(3,6-dimethylheptan-3-yl)phenoxy]ethanol	-	1119449-37-4	yes
Nonylphenolpolyglycolether	-	-	yes
4-Nonylphenol, branched, ethoxylated	-	127087-87-0	yes
Poly(oxy-1,2-ethanediyl), $\alpha$ -(nonylphenyl)- $\omega$ -hydroxy-	-	9016-45-9	yes
Isononylphenol, ethoxylated	-	37205-87-1	yes
17-(4-nonylphenoxy)-3,6,9,12,15-pentaoxaheptadecan-1-ol	-	34166-38-6	yes
4-Nonylphenol, branched, ethoxylated	500-315-8	127087-87-0	yes
3,6,9,12-Tetraoxatetradecan-1-ol, 14-(4-nonylphenoxy)-, branched	293-926-1	91648-64-5	yes
2-(isononylphenoxy)ethanol	284-987-5	85005-55-6	yes
2-(nonylphenoxy)ethanol	248-762-5	27986-36-3	yes
20-(isononylphenoxy)-3,6,9,12,15,18-hexaoxaicosan-1-ol	265-785-6	65455-69-8	yes
26-(nonylphenoxy)-3,6,9,12,15,18,21,24-octaoxahexacosan-1-ol	247-816-5	26571-11-9	yes
3,6,9,12,15-Pentaoxaheptadecan-1-ol, 17-(nonylphenoxy)-	-	27177-01-1	yes

3,6,9,12,15,18,21,24,27-Nonaoxanonacosan-1-ol, 29-(isononylphenoxy)-	-	65455-72-3	yes
4-Nonylphenol, branched and linear	-	-	yes
p-(1-methyloctyl)phenol	241-427-4	17404-66-9	yes
4-(1-ethyl-1-methylhexyl)phenol	257-907-1	52427-13-1	yes
Phenol, 4-nonyl-, branched	284-325-5	84852-15-3	yes
4-(1-Ethyl-1,4-dimethylpentyl)phenol	-	142731-63-3	yes
4-(1-Ethyl-1,3-dimethylpentyl)phenol	-	186825-36-5	yes
p-(1,1-dimethylheptyl)phenol	250-339-5	30784-30-6	yes
p-nonylphenol	203-199-4	104-40-5	yes
p-isononylphenol	247-770-6	26543-97-5	yes
4-(3-ethylheptan-2-yl)phenol	-	186825-39-8	yes
4-(1,1,5-Trimethylhexyl)phenol	-	521947-27-3	yes
Nonylphenol	246-672-0	25154-52-3	yes

Phenol, nonyl-, branched	291-844-0	90481-04-2	yes
Isononylphenol	234-284-4	11066-49-2	yes
4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated	-	-	yes
Polyethylene glycol p-(1,1,3,3-tetramethylbutyl)phenyl ether	-	9002-93-1	yes
2-[2-[4-(1,1,3,3-tetramethylbutyl)phenoxy]ethoxy]ethanol	-	2315-61-9	yes
20-[4-(1,1,3,3-tetramethylbutyl)phenoxy]-3,6,9,12,15,18-hexaoxaicosan-1-ol	219-682-8	2497-59-8	yes
Poly(oxy-1,2-ethanediyl), $\alpha$ -[(1,1,3,3-tetramethylbutyl)phenyl]- $\omega$ -hydroxy-	-	9036-19-5	yes
2-[4-(1,1,3,3-tetramethylbutyl)phenoxy]ethanol	-	2315-67-5	yes
4-(1,1,3,3-tetramethylbutyl)phenol	205-426-2	140-66-9	yes
Diisobutyl phthalate	201-553-2	84-69-5	yes
Dibutyl phthalate (DBP)	201-557-4	84-74-2	yes
Bis (2-ethylhexyl)phthalate (DEHP)	204-211-0	117-81-7	yes
Benzyl butyl phthalate (BBP)	201-622-7	85-68-7	yes

Mancozeb	-	8018-01-7	-
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TABLE Aa

List of substances with proven and presumed endocrine-disrupting properties referred to in I of Article L. 5232-5 of the Public Health Code and subject to health recommendations due to their nutritional character (vitamins, minerals) and their health benefits according to the precautions for use

Substance name	CE number	CAS number	Substance included in the Candidate List of Substances of Very High Concern for Authorisation (published on the website of the European Chemicals Agency pursuant to Article 59(10) of the above-mentioned Regulation (EC) No 1907/2006 (REACH))
Cholecalciferol	200-673-2	67-97-0	-

TABLE B

List of substances with suspected endocrine disrupting properties referred to in Article L. 5232-5 II of the Public Health Code

Substance name	CE number	CAS number	Substance included in the Candidate List of Substances of Very High Concern for Authorisation (published on the website of the European Chemicals Agency pursuant to Article 59(10) of the above-mentioned Regulation (EC) No 1907/2006 (REACH))
-	-	-	-

TABLE Ba

List of substances with suspected endocrine-disrupting properties referred to in I of Article L. 5232-5 of the Public Health Code and subject to health recommendations due to their nutritional character (vitamins, minerals) and their health benefits according to the precautions for use

Substance name	CE number	CAS number	Substance included in the Candidate List of Substances of Very High Concern for Authorisation (published on the website of the European Chemicals Agency pursuant to Article 59(10) of the above-mentioned Regulation (EC) No 1907/2006 (REACH))
-	-	-	-

Note. - The substances listed in Tables Aa and Ba are subject to health recommendations because of their nutritional character (vitamins, minerals) and their health benefits according to the precautions of use). They are the subject of specific information in accordance with the recommendations of the health authorities, the content of which is specified in the Joint Order of the Ministers responsible for health and the environment specifying the detailed rules relating to the content and the conditions for presenting the information provided for in I and II of Article L. 5232-5 of the Public Health Code adopted pursuant to Article R. 5232-20 of that code.

## **Annex**

### ANNEX II

List of product categories presenting a particular risk of exposure referred to in Article L. 5232-5 II of the Public Health Code

Not applicable

Done on 28 September 2023.

The Minister for Ecological Transition and Territorial Cohesion,  
For and on behalf of the Minister:  
The Director-General for Risk Prevention,  
C. Bourillet

The Minister for Health and Prevention,  
For and on behalf of the Minister:  
The Director-General for Health,  
G. Emery