

# INFORMATION FOR LABORATORIES using certain toxic substances

(2021 edition)



*The Prohibition of Certain Toxic Substances Regulations, 2012* (the Regulations) prevent potential risks of harm to the Canadian environment and human health by prohibiting the manufacture, use, sale, offer for sale or import of the toxic substances listed below, and products containing them, with a limited number of exemptions.

The prohibition does not apply to toxic substances, or to any products containing them, that are to be used:

- in a laboratory for analysis
- in scientific research, or
- as a laboratory analytical standard

## Annual reporting required

Users of the toxic substances for the above purposes are required to report certain information to the Minister as soon as feasible **before the use of more than 10 g** of any toxic substance in a calendar year. **A separate report must be submitted for every calendar year for each toxic substance.**

The report(s) must clearly provide the information listed below, including each proposed or actual use, the anticipated period of use, and the **quantities to be used per calendar year (January 1<sup>st</sup> to December 31<sup>st</sup>).**

A [reporting form](#) is available online to facilitate reporting. You must submit the completed report(s) to [ec.interdiction-prohibition.ec@ec.gc.ca](mailto:ec.interdiction-prohibition.ec@ec.gc.ca) or by mail to the address in Contact us.

The information that must be reported, as set out in [Schedule 3](#) of the Regulations, includes:

- Information respecting the laboratory and person authorized to act on behalf of the laboratory
- Information respecting the toxic substance and, if applicable, the product in which it is used:

For each toxic substance:

- the name of the toxic substance (as listed in the Regulations)
- the anticipated period of its use per calendar year
- the estimated quantity of the toxic substance to be used in each calendar year
- the identification of each proposed or actual use

For each product containing a toxic substance:

- the name of the product containing the toxic substance
- the estimated quantity of the product to be used, and
- the estimated concentration of the toxic substance in the product



## Updates to the list of prohibited toxic substances

The Regulations may be amended from time to time to modify current requirements or to add new toxic substances.

In order to stay informed, please visit [Canada.ca/prohibited-chemical-substances](http://Canada.ca/prohibited-chemical-substances) and the *Canadian Environmental Protection Act* registry. You may also contact us if you wish to be added to our distribution list or to receive the non-exhaustive list of CAS RNs of substances that are controlled by the Regulations.

## List of toxic substances subject to the Regulations

(as of the last regulatory amendments in December 2017)<sup>1</sup>

- 2-Methoxyethanol, which has the molecular formula  $C_3H_8O_2$  (**2-ME**)
- Tributyltins, which contain the grouping  $(C_4H_9)_3Sn$  (**TBTs**)
- Chloromethyl methyl ether that has the molecular formula  $C_2H_5ClO$  (**CMME**)
- Perfluorooctanoic acid, which has the molecular formula  $C_8F_{17}CO_2H$  and its salts (**PFOA**)
- Compounds that consist of a perfluorinated alkyl group that has the molecular formula  $C_nF_{2n+1}$  in which  $n = 7$  or  $8$  and that is directly bonded to any chemical moiety other than a fluorine, chlorine or bromine atom (PFOA precursors)
- Perfluorocarboxylic acids that have the molecular formula  $C_nF_{2n+1}CO_2H$  in which  $8 \leq n \leq 20$  and their salts (long-chain PFCAs)
- Compounds that consist of a perfluorinated alkyl group that has the molecular formula  $C_nF_{2n+1}$  in which  $8 \leq n \leq 20$  and that is directly bonded to any chemical moiety other than a fluorine, chlorine or bromine atom (long-chain PFCAs precursors), including:
  - Hexane, 1,6-diisocyanato-, homopolymer, reaction products with alpha-fluoro-omega-2-hydroxyethyl-poly(difluoromethylene), C16-20-branched alcohols and 1-octadecanol
  - 2-Propenoic acid, 2-methyl-, hexadecyl ester, polymers with 2-hydroxyethyl methacrylate, gamma-omega-perfluoro-C10-16-alkyl acrylate and stearyl methacrylate
  - 2-Propenoic acid, 2-methyl-, 2-methylpropyl ester, polymer with butyl 2-propenoate and 2,5 furandione, gamma-omega-perfluoro-C8-14-alkyl esters, tert-Bu benzenecarbo peroxyate-initiated
  - 2-Propen-1-ol, reaction products with pentafluoroiodoethane tetrafluoroethylene telomer, dehydroiodinated, reaction products with epichlorohydrin and triethylenetetramine
- Perfluorooctane sulfonate and its salts (PFOS)
- Compounds that contain one of the following groups:  $C_8F_{17}SO_2$ ,  $C_8F_{17}SO_3$  or  $C_8F_{17}SO_2N$  (PFOS precursors)
- Chlorinated alkanes that have the molecular formula  $C_nH_xCl_{(2n+2-x)}$  in which  $10 \leq n \leq 13$  (**short-chain CAs**)
- Tetrachlorobenzenes, which have the molecular formula  $C_6H_2Cl_4$  (**TeCB**)
- Pentachlorobenzene, which has the molecular formula  $C_6HCl_5$  (**PeCB**)
- Dichlorodiphenyltrichloroethane, which has the molecular formula  $C_{14}H_9Cl_5$  (**DDT**)
- Bis(Chloromethyl) ether that has the molecular formula  $C_2H_4Cl_2O$  (**BCME**)
- Hexachlorobutadiene, which has the molecular formula  $C_4Cl_6$  (**HCBD**)
- Benzidine and benzidine dihydrochloride, which have the molecular formula  $C_{12}H_{12}N_2$  and  $C_{12}H_{12}N_2 \cdot 2HCl$ , respectively
- Polychlorinated naphthalenes, which have the molecular formula  $C_{10}H_{8-n}Cl_n$  in which "n" is greater than 1 (**PCNs**)
- Hexachlorobenzene (HCB)
- N-Nitrosodimethylamine, which has the molecular formula  $C_2H_6N_2O$  (**NDMA**)
- Polybrominated diphenyl ethers that have the molecular formula  $C_{12}H_{(10-n)}Br_nO$  in which  $4 \leq n \leq 10$  (**PBDEs**)
- Hexabromocyclododecane, which has the molecular formula  $C_{12}H_{18}Br_6$  (**HBCD**)
- Dodecachloropentacyclo [5.3.0.0<sup>2,6</sup>.0<sup>3,9</sup>.0<sup>4,8</sup>] decane (Mirex)
- Polybrominated biphenyls that have the molecular formula  $C_{12}H_{(10-n)}Br_n$  in which «n» is greater than 2 (**PBB**)
- Polychlorinated terphenyls that have a molecular formula  $C_{18}H_{(14-n)}Cl_n$  in which «n» is greater than 2 (**PCT**)
- (4-Chlorophenyl)cyclopropylmethanone, O-[(4-nitrophenyl)methyl]oxime that has the molecular formula  $C_{17}H_{15}ClN_2O_3$  (**NCC ether**)

<sup>1</sup> The list of toxic substances subject to the Regulations is up to date as of 2021-06-28.

## Contact us

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## Disclaimer

This information has been prepared for convenience of reference only and is not to be construed as a legal document. For the purpose of interpreting and applying the Regulations, consult the Regulations on Justice Canada's website: <https://laws-lois.justice.gc.ca/eng/regulations/SOR-2012-285/>.

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