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*Exposure to endocrine disrupting chemicals, report series launch, Part 1*

*(EXposition aux Pesticides PERTurbateurs endocriniens, EXPPERT enquiry 1)*

## **Which endocrine disrupting insecticides are children exposed to everyday?**

The results of the first part of an enquiry by French NGO, Generations Futures into everyday exposure to endocrine-disrupting pesticides was launched on 20 March 2013.

**Endocrine disrupting pesticides:** Endocrine disruptors are substances that are foreign to the human body and which can have harmful effects on the human organism or on that of his or her descendants by disturbing the hormone signalling system. These substances are most likely to have negative effects on the fetus and the young child. Numerous pesticides are proven, or strongly suspected, to be endocrine disruptors.

**Act now:** To demonstrate the urgency of preventative action on endocrine disrupting chemicals, Generations Futures has developed a series of reports based on analyses and in-depth surveys showing the omnipresence of many endocrine disrupting chemicals in our environment, which creates a very significant exposure for the population. This series of reports is called EXPPERT (in French, EXposition aux Pesticides PERTurbateurs endocriniens).

**A targeted report:** EXPPERT 1 shows that we are exposed on a daily basis to two families of endocrine disrupting (ED) insecticides: organophosphates and pyrethroids. This exposure may be through food (EXPPERT 1 addresses ED pesticide contamination of cereal-based products) but also through household insecticides, which may be impregnated in bedding and other textiles or used to kill bugs in the garden or used for human or animal treatments (such as flea, tick and mite treatments).

- Among the cereal-based food products, 75% of samples analysed contain pesticide residues - of which all contain one or several organophosphate or pyrethroid substances.
- Among the non-food products, 108 of the 181 commercially-available items analysed in this report contained one or more organophosphate or pyrethroid substances at the time of the test.

Organophosphate and pyrethroid substances are suspected of disrupting the endocrine system.

### **Results: Everyday exposure to endocrine disrupting insecticides**

The following list shows the products tested in the EXPPERT 1 enquiry and the endocrine disrupting pesticides and insecticides that they were found to contain.

#### **Food**

**Biscuits with fillings** - Pirymiphos methyl and piperonyl butoxide (PBO)

**Chocolate cereal** - Pirymiphos methyl and PBO  
**Soft bread** – Cypermethrine, pirymiphos methyl and PBO  
**Brioches** - Chlorpyrifos methyl, pirymiphos methyl and PBO  
**Croissants** - Chlorpyrifos methyl, pirymiphos methyl and PBO  
**Durum wheat pasta** - Chlorpyrifos methyl, pirymiphos methyl and PBO

#### ***Indoor treatments***

**Spray for houseplants against bugs** – Pyrethrine and PBO  
**Anti-flea textile spray** – Bifenthrine  
**Anti-flea lotion** - Malathion  
**Anti-moth tablets** - PBO  
**“Natural” (sic) insecticide spray** – Deltamethrine and cypermethrine  
**Anti-mite mattress treatment** - Permethrine  
**“Essential oil” (sic) anti-mite tablets** - Permethrine  
**Home insecticide powder** – Deltamethrine and PBO

#### ***Outdoor treatments***

**Outdoor insect powder** – Bifenthrine  
**Garden insecticides** – Deltamethrine and Cypermethrine

#### ***Treatments for pets***

**Anti-tick and anti-mosquito dog collar** – Deltamethrine  
**Anti-parasite spray** - Bioallethrine and PBO

“We need to act urgently – starting today – to reduce public exposure to endocrine disrupting substances as much as possible. The European Parliament has made this exact same call for action by adopting the Westlund report on the protection of public health from exposure to endocrine disruptors on 14 March 2013,” says Francois Veillerette, Generations Futures spokesperson.

“Our report allows a clear understanding of the ubiquitous exposure to endocrine disrupting insecticides. Its ultimate aim is to create awareness among our politicians of the urgency of preventative action in this area. We will officially present this report, and those that follow, to the committee working on the future national strategy on endocrine disruptors during a meeting on 22 March 2013 as well as to various relevant ministers. Our objective is to ensure that in future no human body or animal organism contains endocrine disrupting chemicals in order to protect the health of children yet to be born,” he concludes.

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<sup>1</sup> Find the full report here (in French) <http://www.generations-futures.fr/pesticides/etude-expert-1-exposition-aux-pesticides-perturbateurs-endocriniens>

<sup>2</sup> Tests on the following products showed they contain residues of pesticides: Wholemeal flour BN biscuits with strawberry filling, Belvita breakfast biscuits, Chocapic cereal, Special K cereal, wholemeal bread from the supermarket Carrefour, Harris soft bread, Panzani spaghetti, Pasquier croissants, Doowap brioches with chocolate morsels.