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EFSA: Implementation of CRA of pesticide residues

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Trusted science for safe food

The legal basis

Article 14 of **Regulation (EC) No 396/2005** provides that pesticide MRL setting needs to *'take account of their known cumulative and synergistic effects, when the methods to assess such effects are available'*

Methodologies are available

EFSA Panel on plant protection products and their residues (2007 to 2013)

- Hazard identification/characterisation: Mixtures of interest (CAGs)
- Exposure assessment: Probabilistic modelling
- Risk characterisation: Tiered methodology

4 Scientific Opinions and 1 Guidance

5 Working Groups

Cooperation with external organisations (RIVM, ICPS, ANSES, DTU)

3 public consultations

The **methodology in 3 sentences**

- The methodology uses cumulative assessment groups which are populated by pesticides causing a same phenomenological effect.
- The cumulative risks are calculated with the dose-addition model
- Interactions so far not considered but not expected considering the low level of exposure

The methodology offers a high level of protection and allows RMs to apply the precautionary principle.

Overall feeling that it tends to overestimate the actual risks.

Data are available

- Official monitoring results from national competent authorities
- National food consumption surveys from various institutes in EU MSs
- Pesticide dossiers reviewed by EFSA

Exposure tools are available

- EFSA – SAS®-based model
 - Development/validation of the probabilistic model
 - Programming codes publicly available
- RIVM – Monte Carlo Risk Assessment (MCRA)
 - Software implementing the probabilistic model

An implementation programme started in 2014

Retrospective cumulative risk assessment

By end of June 2019 (pilot phase)

- Nervous system and thyroid

From 2020

- Adrenals, development, eyes, haematopoietic system, kidneys, liver, reproduction and testes

Foreseen publications (end June)

2 batches of 4 documents (Nervous system and thyroid)

- 1 EFSA SR on Cumulative Assessment Groups
- 1 RIVM SR on cumulative Exposure Assessment
- 1 EFSA SR on Cumulative Exposure Assessment
- 1 EFSA SR on cumulative Risk Assessment and uncertainty analysis



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