

# Evaluation of Dutch proposal for risk assessment of pesticide persistence in soil

Theme: Risk assessment procedures for pesticide registration

BO-06-010-006

## Problem

- In 2006 a Dutch proposal was published for risk assessment of pesticide persistence in soil
- The proposal aims at preventing effects on soil organisms for persistent pesticides and consists of a tiered approach for exposure in soil (two tiers) combined with a tiered approach for effects on these organisms (three tiers)
- A majority of the Dutch parliament requested early 2006 that this proposal should be first evaluated before bringing it into force in pesticide legislation

## Approach

- Five existing pesticides were selected with varying properties (including persistent pesticides)
- The proposed risk assessment procedure was applied using data available in the registration dossiers and public literature



Effects on soil organisms such as spring tails and earthworms should be prevented by the proposal.

pesticide	exposure assessment		effect assessment		
	tier 1	tier 2	tier 1	tier 2	tier 3
carbendazim	■	■	■	■	■
chlorpyrifos	■	■	■	■	■
paraquat	■	■	■	■	■
quinoxifen	■	■	■	■	■

■	= risk unacceptable
■	= risk acceptable
■	= no data available

Overview of results of application of proposed procedure to four pesticides.

## Results

- Exposure assessment was always possible for the two exposure tiers but it was never possible to achieve an acceptable risk based on the first tier
- From the 12 possible combinations of pesticide-effect tiers, only four tiers could be applied, so current dossiers show considerable data gaps for the effect assessment

## Future use in risk assessment

Based on this evaluation, the ministries will decide on the introduction of the proposal into Dutch pesticide legislation.

## Communication 2008

- The results were presented and discussed in a meeting with the responsible Dutch Ministries (LNV and VROM) and representatives of Nefyto (pesticide industry) on 5 February 2008
- The results were also presented in the EFSA Soil Exposure Workgroup in February 2008

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