



NAFTA Technical Working Group on Pesticides  
Grupo de Trabajo Técnico del TLCAN sobre plaguicidas  
Groupe de travail technique de l'ALENA sur les pesticides

# Biopesticides Registration Workshop - Pheromones and Other Semiochemicals

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# Risk Assessment and Decision Making - Pheromones

- ◆ Three General Steps to Risk Assessment
  - ❖ Assess potential for adverse effects or “hazard”
  - ❖ Assess potential for “exposure”
  - ❖ Risk = Hazard × Exposure



# Risk Assessment and Decision Making - Pheromones

## PMRA Approach

- ◆ PMRA formalized a decision-making framework based on assessment and management of risk for all pesticide products (SPN2000-01, *Technical Paper: A Decision Framework for Risk Assessment and Risk Management in the Pest Management Regulatory Agency*)
- ◆ framework developed mainly for chemicals, but also applies to pheromones
- ◆ framework divided sequentially into 4 identifiable decision steps and components
  - ◆ underlying process is highly iterative and interactive



# Risk Assessment and Decision Making - Pheromones

## **Straight-chained lepidopteran pheromones (SCLPs)**

- ◆ no risk assessment of the technical grade active ingredient (TGAI)
- ◆ well characterized chemistry with non-toxic mode of action (behavioural modification)
- ◆ generally species specific
- ◆ use does not usually exceed background levels



# Risk Assessment and Decision Making - Pheromones

## End-Use Products (Formulations)

- ◆ evaluation of formulants (inerts)
- ◆ no crop residue data required
- ◆ occupational exposure qualitative assessment



# Risk Assessment and Decision Making - Pheromones

## Non-SCLPs

- ◆ may require risk assessment
- ◆ would use same basic process as microbials and chemicals
- ◆ case-by-case

