



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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# History of Regulation - Pheromones

## DEFINITIONS

### ◆ Semiochemical:

“A message-bearing substance produced by a plant or animal, or a synthetic analog of that substance, that evokes a behavioural response in individuals of the same or other species.”



# History of Regulation - Pheromones

(cont'd)

## ◆ Pheromone:

“A semiochemical produced by individuals of a species that affects the behaviour of other individuals of the same species.”



# History of Regulation - Pheromones

(cont'd)

## ◆ Straight-Chained Lepidopteran Pheromones (SCLP):

“A group of pheromones consisting of unbranched aliphatics having a chain of nine to eighteen carbons, containing up to three double bonds, ending in an alcohol, acetate or aldehyde functional group.”



# History of Regulation - Pheromones

(cont'd)

## **REGISTRATION NOT REQUIRED**

- ◆ Semiochemicals used in fixed-location lures for the purpose of attracting and monitoring pests and expected to have minimal impact on either the environment or human health.



# History of Regulation - Pheromones

(cont'd)

Such products are exempt from registration, when used as follows:

- ◆ Semiochemicals used in pheromone traps in which they are the sole active ingredient.
- ◆ Semiochemicals used in lures attached to trap trees.
- ◆ Semiochemicals incorporated into pesticide formulations used in fixed location traps (semiochemical does not require registration, but formulation does).



# History of Regulation - Pheromones

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## **REGISTRATION REQUIRED**

- ◆ Semiochemicals contained in solid-matrix dispensers which are placed in large numbers by hand or machine (i.e. not fixed-location traps) for the purpose of pest control.



# History of Regulation - Pheromones

(cont'd)

These devices include, but are not limited to, the following:

rubber septa dispensers

trilaminate sheets

tapes

tags

wafers

macrocapillary devices such as long tubes or fibres

protected “ropes”

twist-ties



# History of Regulation - Pheromones

(cont'd)

## REGISTRATION REQUIRED

- ◆ Semiochemicals to be broadcast or sprayed, alone or formulated into a pesticidal bait.

These products include, but are not limited to, the following:

liquid flowables

microcapsules

microcapillary straws

granular powders

flakes

confetti formulations

cigarette filters

unprotected “ropes”



# History of Regulation - Pheromones

(cont'd)

## 1990's

- ◆ recognized need for different approach to registration requirements for pheromones
- ◆ 1994 started working with EPA on harmonization; result Directive published in 1997 with substantial harmonization achieved at same time worked through OECD;
  - ❖ Canada hosted a workshop resulting in further harmonization;
  - ❖ revised proposal to go out this fall 2001, which will include information developed from U.S. white paper on pheromones

