

# Canadian Pesticide Registration Process

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# Outline

- Canadian Regulatory Framework
  - High level overview
- Invasive alien species
  - Application types for product registration
- Important considerations
- Zebra mussel control



# Canadian Regulatory Framework

- Health Canada's Pest Management Regulatory Agency is responsible for the regulation of pest control products in Canada under the authority of the *Pest Control Products Act* (PCPA).
- Primary objective under the act is to prevent unacceptable risks to people and the environment from the use of pest control products
- Other objectives of the *PCPA* are to:
  - Ensure that pest control products have acceptable value
  - Support sustainable pest management
  - Encourage public awareness of pest control products

# Scope of Products Registered at PMRA

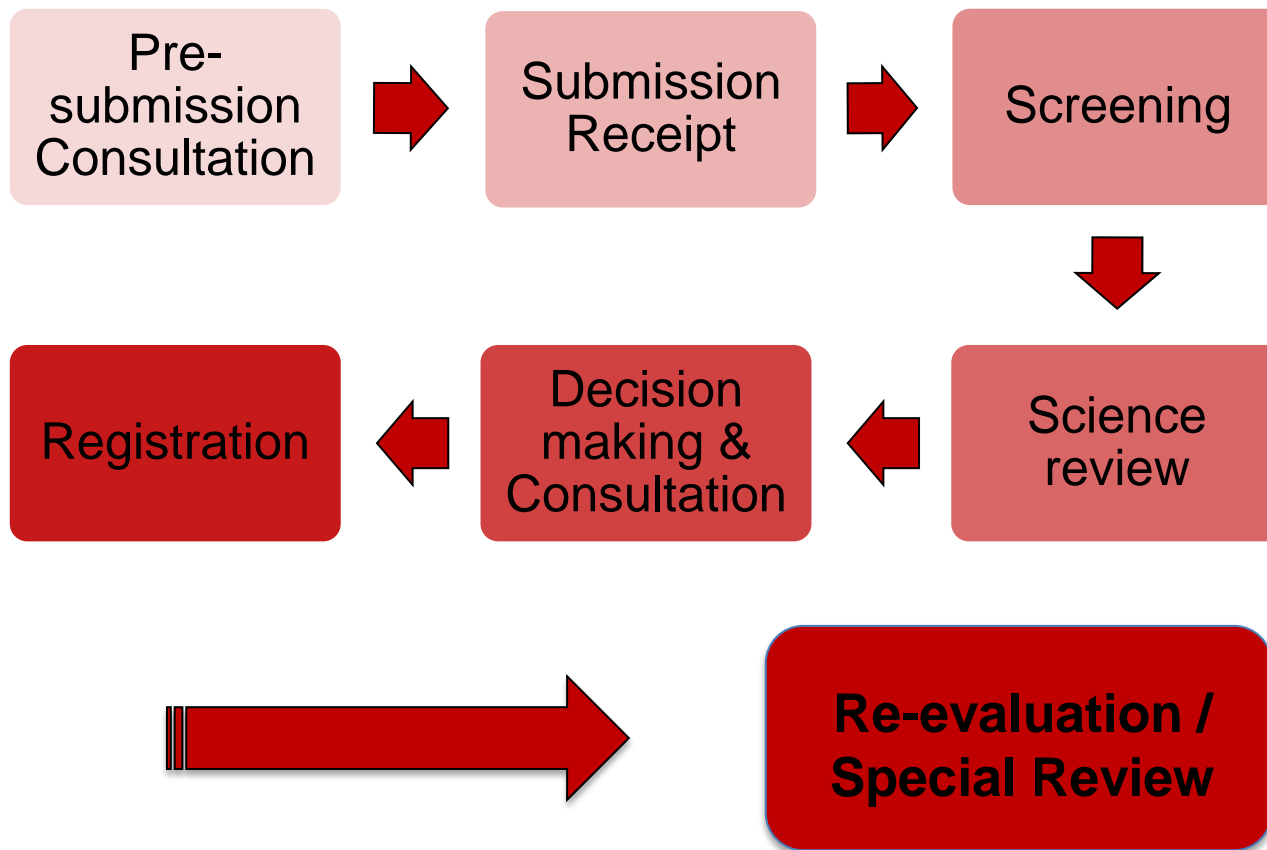
## Product Types

- Insecticides, insect repellents
- Herbicides
- Fungicides
- Algicides
- Devices to control rodents & insects
- Rodenticides
- Antifouling agents
- Biopesticides

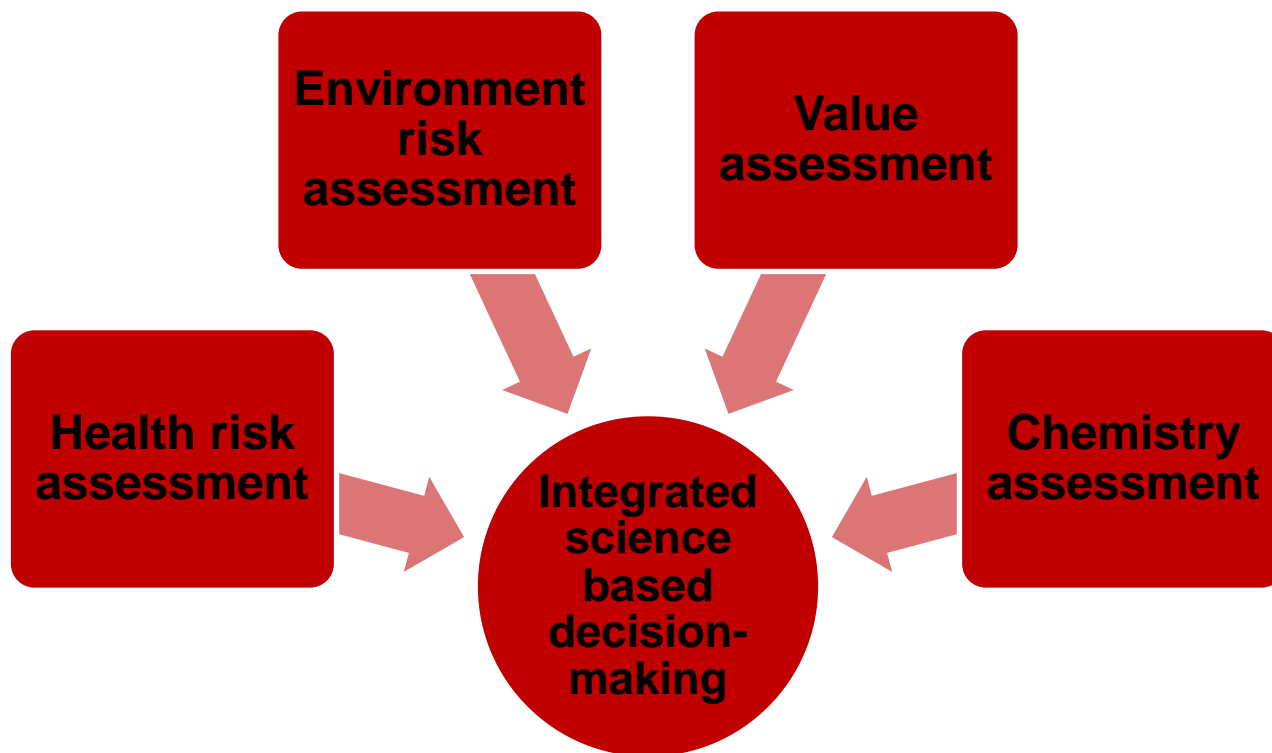
## Use Site Categories

- Agriculture
- Forestry
- Lumber
- Aquaculture
- Inside homes
- Urban landscapes (golf courses, playgrounds, parks)
- Institutions/structures e.g., schools, hospitals, apartments

# Active Ingredient Review Life Cycle

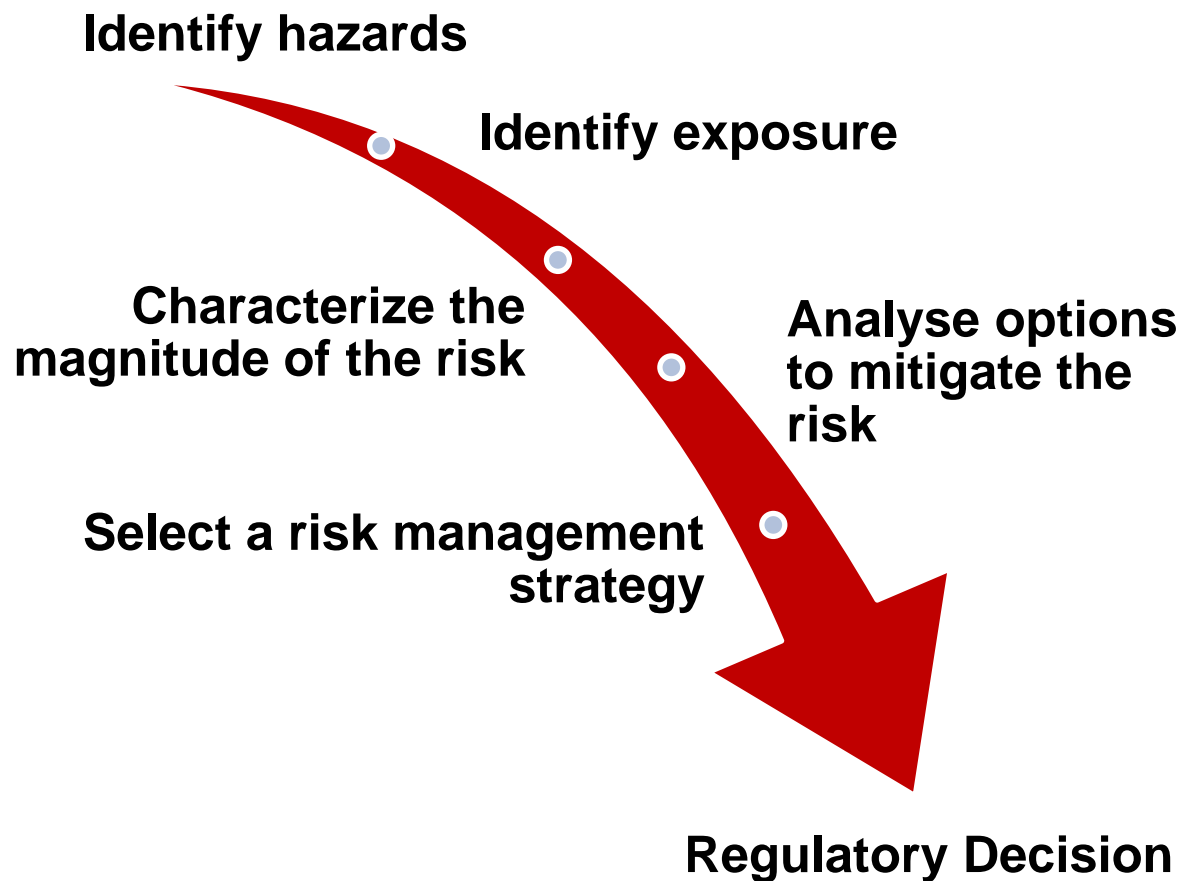


# Science Review Process



# Science-based Risk Management Decision-Making

- Based on scientific assessment and management of risks



# Invasive alien species

- The management of invasive species may fall under a variety of jurisdictions and different federal legislation may apply
  - Plant Protection Act (CFIA)
  - Fisheries Act (DFO)
  - Canadian Environmental Protection Act (CEPA) and others (EC)
- ❖ Note that the Pest Control Products Act does not specifically make reference to IAS



- What is the process to register a pest control product for aquatic or semi-aquatic use for invasive aquatic species?

# Pre-submission Consultations

- An opportunity to request information on the application requirements and process prior to data generation and submission
- A means to obtain advice on a study protocol
- To aid in preparing a complete, high quality submission package
  - facilitates the progress through the screening and review process
  - There is no charge for this process

# Application to Register

- Category A application
  - to register a new active ingredient to Canada
  - A major new use to a registered active ingredient such as adding aquatic uses to a product registered for terrestrial uses
- Most applications would likely be Category A's since there are relatively few pest control products registered currently for aquatic use in Canada
- Data requirements may be found on the HC-PMRA website
- 24 month timeline

## Category B- Streamlined

- The addition of a new pest to an existing pest control product label.
- The rest of the use pattern including application rate and directions for use do not change.

## Category B- Emergency Registration

- The Minister may register a control product, for a period not exceeding one year, for the emergency control of pest infestations that are seriously detrimental to public health, domestic animals, natural resources or other things.
- An emergency is generally deemed to exist when the following criteria are met:
  - a pest outbreak or pest situation occurs that can cause significant economic, environmental or health problems;
  - there is no effective product or application method registered in Canada for control of the pest; and
  - there is no effective, alternative control method available.
- ❖ ERs are not intended to manage ongoing pest problems or to fill a void where no registered product is available

# Considerations

- Aquatic and semi-aquatic uses are considered a major new use (direct aquatic application vs. terrestrial) generally triggering additional data requirements.
- Despite being a major new use, the market for aquatic products may be limited relative to terrestrial uses (restricted use)

# Considerations

- Ultimately, eradication of newly introduced invasive alien species is the goal and this may or may not be seen as a viable long term investment by pesticide manufacturers.
- This is in contrast to the long-term management of naturalized invasive species.
- Registration of new active ingredients or end use products is ultimately a business decision for registrants.

# Considerations

- Registrant does not have to be a chemical company:
  - Oxalic acid Dihydrate is registered by the Canadian Honey Council
  - 12% White Vinegar is registered by the Quebec Cranberry Growers Association
  - Wedeco Ozone Generator is registered by Ontario Power Generation
- PMRA is pleased to provide guidance with regards to the registration process for pest control products



# Products registered in Canada for zebra mussel control

Reg.No.	Name	a.i. name	Site
21678	ACTI-BROM 1338 CHLORINE ENHANCER BIODISPERSANT	SODIUM BROMIDE	zebra mussel control (cooling towers & other sites?)
22020	VC 17M	Copper, metallic	boat
22333	EC 6224 A	N-ALKYL (68% C12, 32% C14) DIMETHYL ETHYLBENZYL AMMONIUM CHLORIDE; N-ALKYL (5% C12, 60% C14, 30% C16, 5% C18) DIMETHYL BENZYL AMMONIUM CHLORIDE	zebra mussel control (cooling towers & other sites?)
22990	TEAM ZEBRA, ZEBRA 2000 UNIT	DEVICE, NO GUARANTEE REQUIRED	inboard/outboard engine inlet passages
23624	BIOSPERSE XD9400	SODIUM BROMIDE	industrial water scrubbing water systems; commercial recirculating cooling water systems; industrial recirculating cooling water systems; brewery pasteurizing systems; heat exchange water systems; influent water systems; flow through filters; air washers
24389	AQUARIUS (VARIOUS COLOURS)	Copper (present as cuprous oxide)	previously painted surfaces - good condition
25666	SPECTRUS CT1300	N-ALKYL (40% C12, 50% C14, 10% C16) DIMETHYL BENZYL AMMONIUM CHLORIDE	once-through cooling systems
29041	WEDECO OZONE GENERATOR	OZONE; DEVICE, NO GUARANTEE REQUIRED	cooling water (service water intake)
			cooling water (service water system - any point)
29437	MAQUAT MC 1412-PS	N-ALKYL (40% C12, 50% C14, 10% C16) DIMETHYL BENZYL AMMONIUM CHLORIDE	once-through cooling systems
30486	ZEQUANOX	PSEUDOMONAS FLUORESCENS CL145A	hydroelectric power plants, dams
32014	BIOSPERSE CN6500 MICROBIOCIDE	N-ALKYL (40% C12, 50% C14, 10% C16) DIMETHYL BENZYL AMMONIUM CHLORIDE	once-through industrial cooling water systems for application by supplier only at provincially approved sites