



Household Hazardous Waste (HHW)

Definitions, clarity, context

What is HHW

- What is hazardous?
- NS has a Waste Dangerous Goods Regulations
 - Designed for larger/IC&I quantities
 - Most HHW is not regulated as hazardous
- NS requires HHW facilities to have an approval
 - Activity designation regulations
- No standard approval so regional offices used conditions from other 'waste dangerous goods' approvals
- Ontario uses 'municipal hazardous and special waste'
 - Most regular batteries are not hazardous

Consumer Chemical and Container Regulations

- Used to indicate hazard during use
- Surrogate for environmental/disposal hazard



What does EPR for HHW mean?

- Funding for obligated products
- Increased diversion of end-of-life HHW
 - Through municipal HHW
 - Retail
 - Other Depots, reuse, down the drain, evaporation
- Municipal savings
 - HHW operations
 - Residential waste stream
- Increased safety for solid waste-resource management workers
- Reduction of items in landfill leachate

How did we choose?

- Municipal/NSE scoring using edited CCME criteria
- Volumes
 - e.g. flammables. Also paint, used oil,
- Hazard
 - e.g. domestic pesticides, mercury, single use propane cylinders
- Public demand/perception e.g. mercury, batteries
- Industry 'readiness'
- Thought about administrative burden
 - Cigarette lighters, small glues, etc.
 - Tracking everything sold and end-of-life management can be costly
- Harmonization
 - Definitions, programs, materials i.e. with exceptions (marine flares)

Potential HHW for EPR

- Flammables
- Batteries
- Used oil/filters/containers and other similar fluids/gels
- Domestic pesticides
- Sharps and pharmaceuticals
- Pressurized containers
- Pyrotechnical distress signals (marine flares)
- Mercury containing end-of-life products

Flammable

“Flammable liquid” means a liquid consumer product, or its container, that

- a) is packaged and sold in a container with a flammable symbol on it, or;
- b) is packaged and sold in a container with the warning “keep away from flame and sparks” on it, or;
- c) has a flash point below 61°C and has a vapour pressure not more than 275.8 kPa (absolute) at 37.8°C

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Flammable

Flammable liquid” excludes:

- a) wine and distilled spirit beverages,
- b) cosmetic and beauty products,
- c) drugs, medicines and other health products,
- d) windshield wiper fluid
- e) are in containers of greater than 10L in volume.
- f) are designed to go down the drain during normal household use (e.g. antifreeze designed to go down the drain)

Batteries

“Batteries” means

- any battery or accumulator device designed to store and convert chemical energy as an independent supply of electrical energy by means of an electrochemical reaction.
- This includes both single-use and rechargeable batteries, and all battery technologies.
- Excludes batteries over 5 kg, batteries designed to be used in motor vehicles and batteries exclusively designed and intended for industrial purposes.

Used Oil and Other

Oil” means

- (a) petroleum or synthetic derived crankcase oil, engine oil and gear oil, and hydraulic fluid, transmission fluid and heat transfer fluid, and
- (b) fluid used for lubricating purposes in machinery or equipment.
- Glycol
- Filters
- Container
- Seeking to harmonize with NB and other provinces

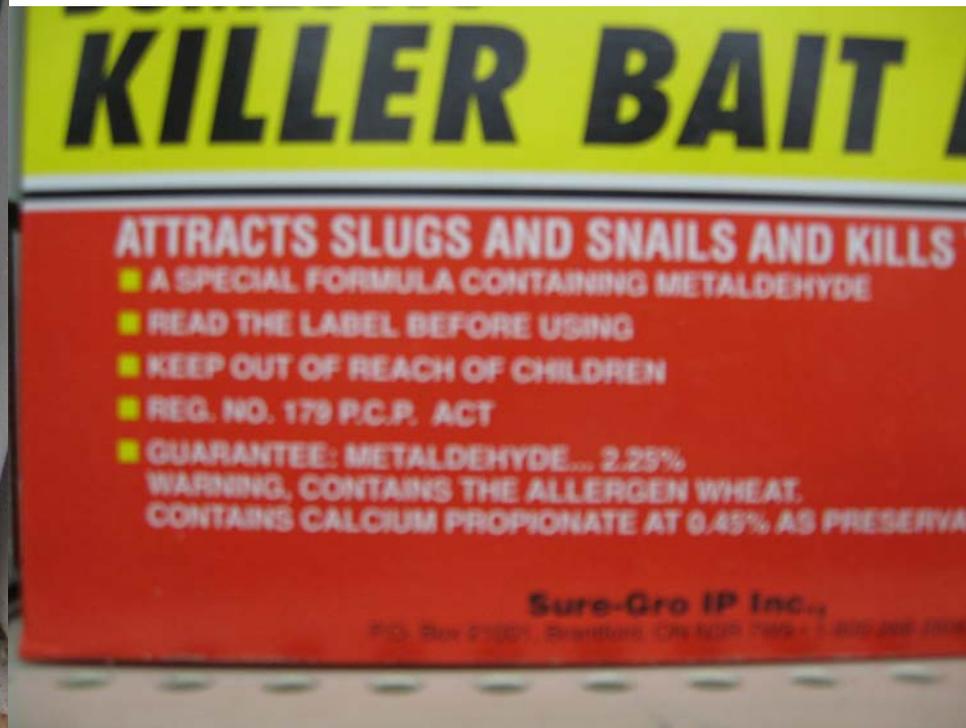
Domestic Pesticides

“Pesticides” consists of control products registered under the *Pest Control Products Act* (Canada) that:

- (a) are required to show on the label the domestic product class designation, and
- (b) display on the label the symbols shown in Schedule III of the Pest Control Products Regulation (Canada) for the signal words "Poison" combined with the signal words “Danger”, “Warning” or “Caution” thereby showing “Danger – Poison”, “Warning – Poison” or “Caution – Poison” represented by the Skull & Crossbones surrounded by the Octagon, Diamond or Inverted Triangle respectively.

Pesticides excludes the following:

- (a) unpackaged products or products not ordinarily sold to, used or purchased by a consumer without repackaging



Pharmaceutical

- Means a drug within the meaning of section 2 of the Food and Drugs Act (Canada) that is sold to consumers in NS
- Includes those found in Natural Health Products Regulations made under that Act;
- Is limited to household quantities.

Pharmaceutical does not include the following

1. A substance or mixture of substances manufactured, sold or represented for use in disinfection in premises in which food within the meaning of section 2 of the Food and Drugs Act (Canada) is manufactured, prepared or kept.
2. Any of the following items:
 - a) Contact lens disinfectant.
 - b) Anti-dandruff product, including shampoo.
 - c) Antiperspirant or deodorant.
 - d) Sunburn protectants.
 - e) Mouthwash.
 - f) Fluoridated toothpaste.
 - g) Lozenge for cough, sore throat or halitosis.
 - h) Topical substance that does not contain antibiotics or anti-fungal agents.
 - i) Radiopharmaceuticals
 - j) Unused or expired drugs from a hospital or the office of a medical and dental practitioner
 - k) Antiseptic or medicated skin-care products
 - l) Veterinary medications and products
 - m) The container/packaging in which the pharmaceutical was supplied in

Sharp

Means a needle, lancet or other similar instrument that is designed to puncture the skin of individuals or companion animals for medical purposes and that is sold to consumers in Nova Scotia

Includes safety engineered needles, syringes, infusion sets, lancets, medication delivery devices (e.g.: disposable auto-injectors, insulin pens) and the components that are affixed or attached to the sharp and includes components of the sharp removed by the consumer prior to use but excludes outer (primary) packaging

Sharps and Pharmaceuticals

- PANS interested in improving and operating existing program
- Currently dialoging with manufacturers/stewards
- Current sharps program now includes IV drug users
- PANS is interested in some limited expansion

Single use pressurized containers

“Pressurized Container” means

- non-refillable or single use cylinders, such as seamless cylinders and tubes, welded cylinders and insulated cylinders,
- previously containing material such as acetylene, propane, refrigerant, isocyanate resins, helium, nitrogen and all other compressed gases.
- This excludes:
 - Aerosols
 - Butane lighters
 - Reservoir tanks intended for use with an air compressor
 - Cylinders that must be punctured for use (e.g. small CO₂)
 - Cylinders with a water capacity over 109 litres
 - Fire extinguishers

Mercury containing products

- Were planning to move forward
- Now going to await outcome of new program
- Nova Scotia Power program recently negotiated
- Hear more details this afternoon

IC&I versus residential

- Both

- Used oil, filters, containers
- Single use pressurized containers
- Marine flares
- Mercury
- Batteries (not industrial, vehicle, etc.)

- Residential

- Sharps and pharmaceuticals
- Flammables
- Domestic pesticides

Should be managed as HHW?

- Cosmetics



Should be managed as HHW

- Where does 99.9% of windshield wiper fluid go?



Should be managed as HHW?

- Volatile hazardous portion
- Products designed to go down the drain
 - Drano, antifreeze for trailers



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