



Using Pesticides in and around schools

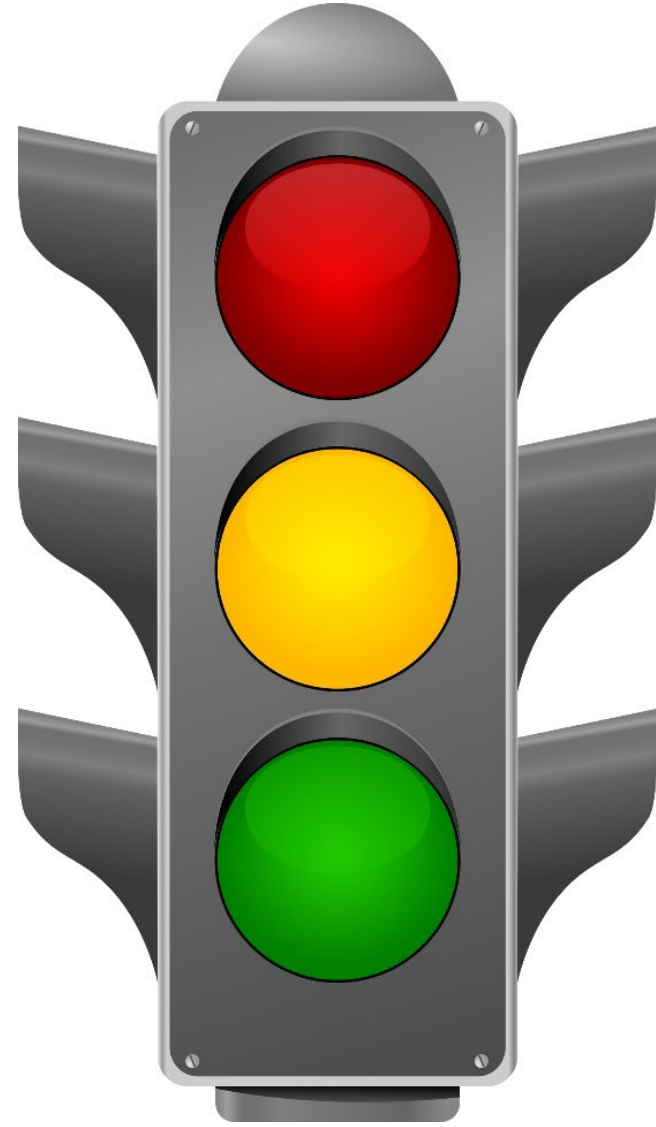
RULE §7.204 Pesticide Use in Schools

- School districts are allowed to apply the following pesticides to control pests, rodents, insects and weeds at school buildings, grounds or other facilities in accordance with the approval for use and restrictions listed for each category:
- Green
- Yellow
- Red



Pesticide Selection

- All pesticides classified as Red, Yellow or Green Category
- Sometimes confusing aspect of school IPM requirements
- Coordinator must have expertise in classifying pesticide products



A. Green Category Pesticides.

Definition: A pesticide will be designated as a Green Category pesticide if it meets the following criteria:

- it contains a CAUTION signal word on the product label, unless no signal word is required to appear on the product label as determined by EPA; and
- it consists of the active ingredient boric acid; disodium octoborate tetrahydrate or related boron compounds; silica gel; diatomaceous earth; or belongs to the class of pesticides that are insect growth regulators; microbe-based insecticides; botanical insecticides containing no more than 5% synergist (and does not include synthetic pyrethroids); biological (living) control agents; pesticidal soaps; natural or synthetic horticultural oils; or insect and rodent baits in tamper-resistant containers, or for crack-and-crevice use only;

Approval for Use: Green Category pesticides do not require prior written approval. These pesticides may be applied at the licensee's discretion under the guidelines of the school district IPM program.

A quick list of Green Category Pesticides

- Certain inorganic compounds
- Insect growth regulators
- Inaccessible baits
- Microbe-based insecticides
- Botanical insecticides
 - With no more than 5% synergist
- Biological (living) control agents
- Pesticidal soaps and horticultural oils



Certain inorganic pesticides

- Boric acid
- Borax
- Disodium octaborate tetrahydrate
- Silica aerogel
- Diatomaceous earth



Low-toxicity Inorganics





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Insect Growth Regulators (IGRs)

- Halofenozide (turfgrass)
- Hydroprene (cockroach control)
- Methoprene (fire ant, mosquito, flea control)
- Pyriproxifen (fire ant, flea, cockroach control)
- Tebufenozide (caterpillar control)



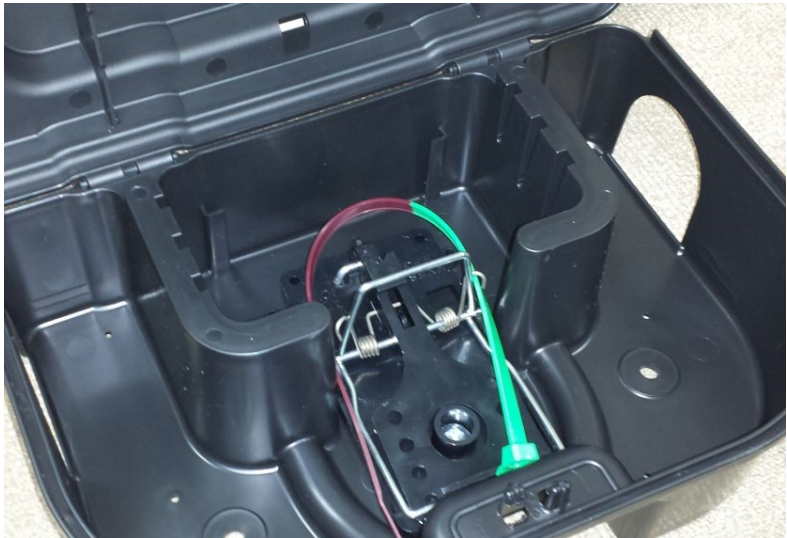
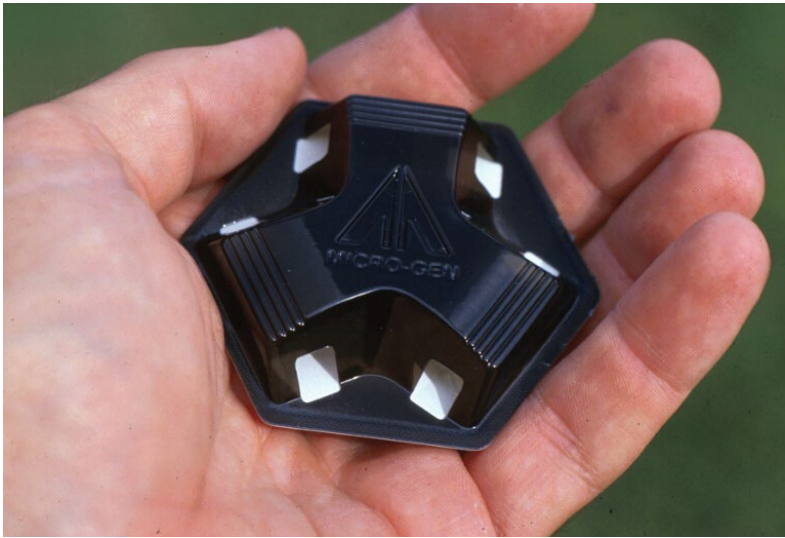
Insect growth regulators

Inaccessible baits

- fire ant baits
- containerized cockroach baits
- granular ant, cockroach and cricket baits
- Rodent baits



Baits



Microbe-based pesticides

- Active or killed microbes
 - *Bacillus thuringiensis*, *Beauveria bassiana*, etc.
- Microbial byproducts
 - Spinosad, avermectin





Microbe-based insecticides

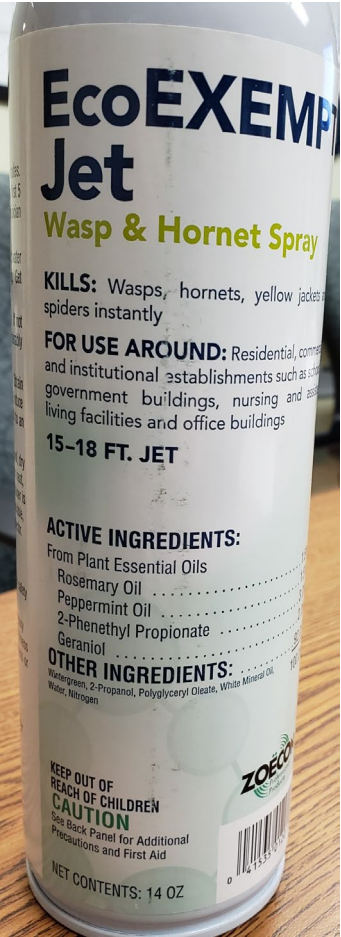




Botanicals pesticides derived from plants

- pyrethrins
- neem extracts & oils (azadirachtin)
- Geraniol
- 2-phenethyl proprionate
- Clove oil
- citrus oils (d-limonene, linalool)
- Mint oils

Botanicals



Biological control agents

Living organisms used to control pests



Low-toxicity contact insecticides

Insecticidal soaps & oils

- Kill small and soft-bodied insects and mites. Must come in direct contact with pest to kill. Short residue.
- Safer's soap,
- Sunspray Ultrafine Spray Oil
- Various plant oils



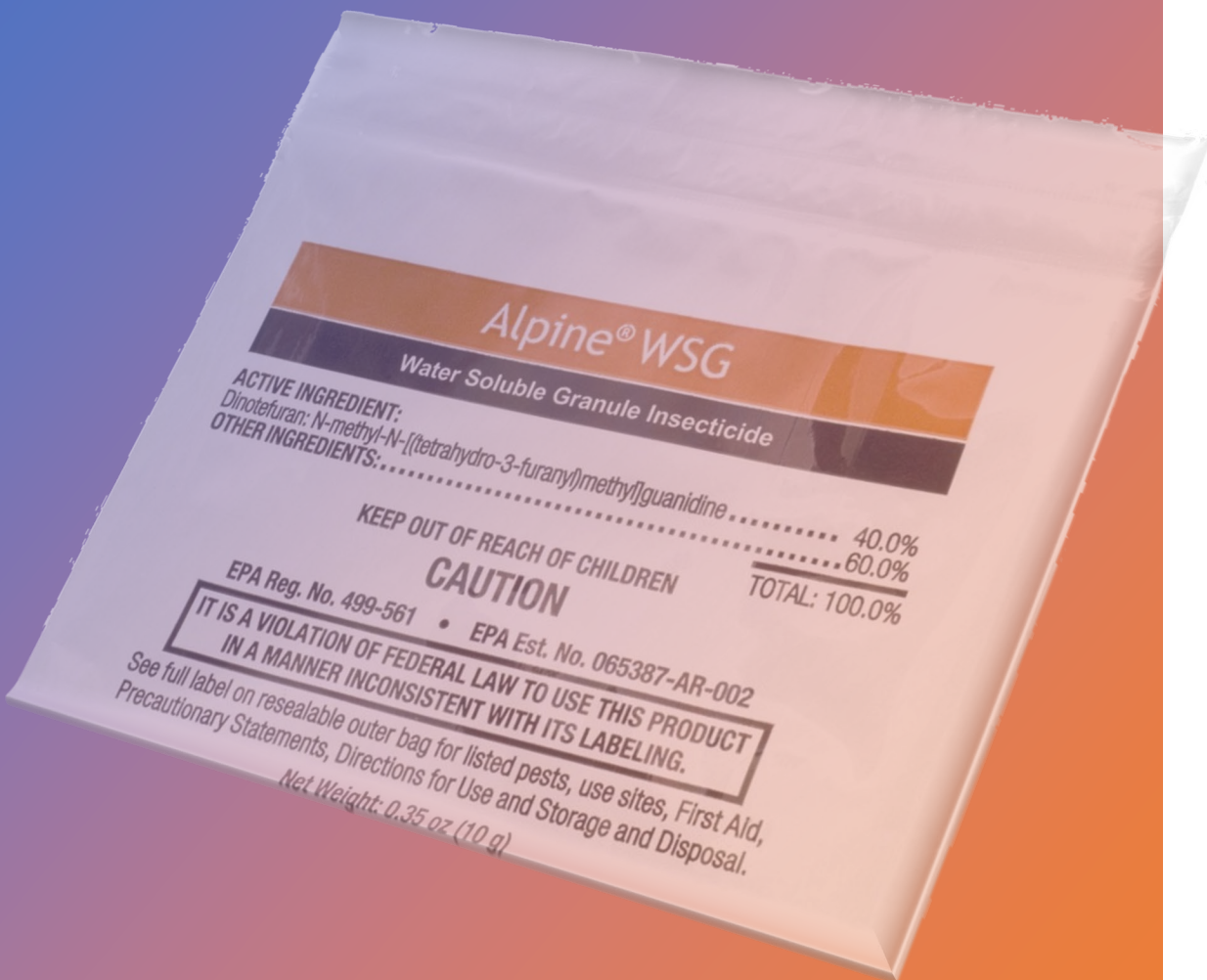


Low-toxicity contact insecticides
Insecticidal soaps & oils



Yellow Category Pesticides

- Definition: A pesticide will be designated as a Yellow Category pesticide if:
 - it does not meet the criteria to be designated as a Green Category and...
 - Carries a CAUTION signal word on the label, unless no signal word is required to appear on the product label as determined by EPA

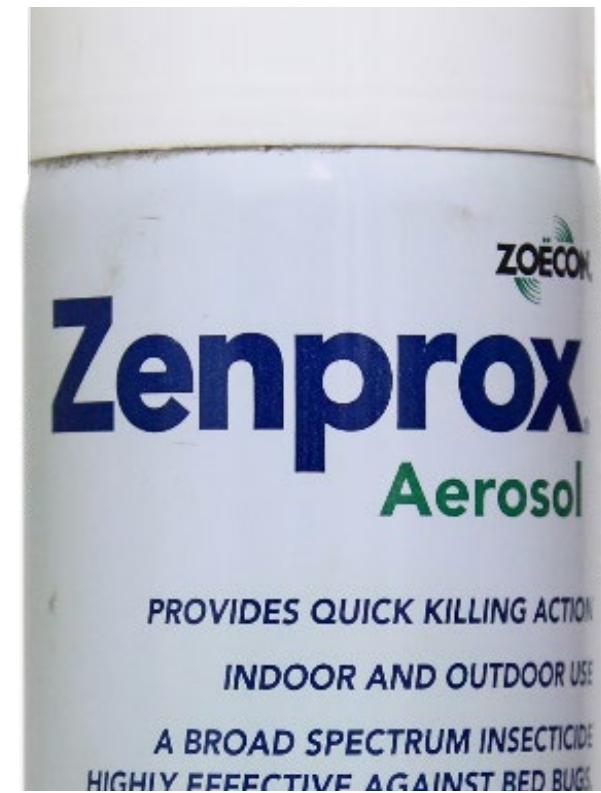


Pyrethroids

Most will be Yellow Category

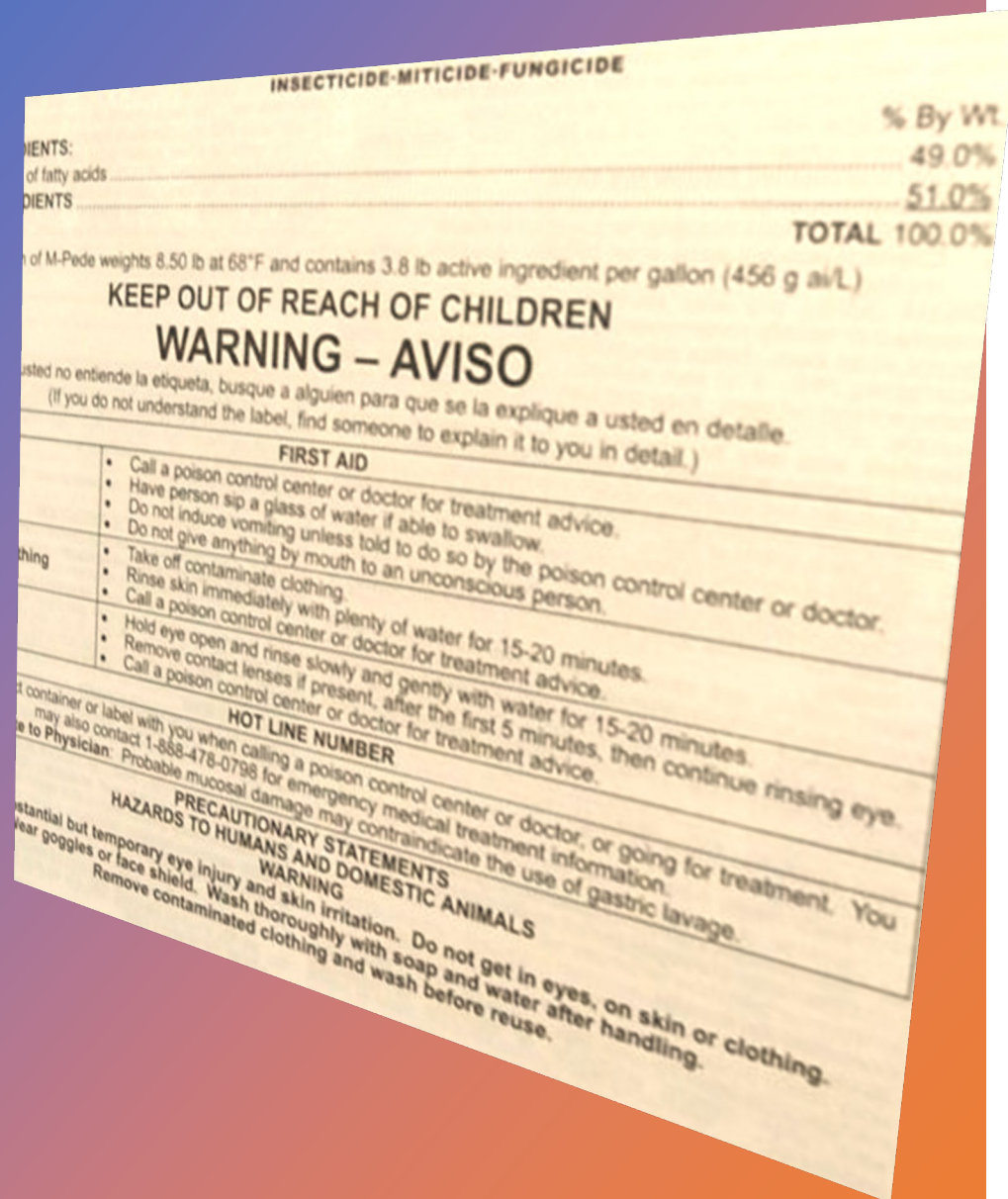
- Usually identified by –thrin suffix
 - permethrin
 - cyfluthrin
 - bifenthrin
 - allethrin
 - sumithrin
 - tetramethrin
 - *Esfenvalerate*
 - *Fluvalinate*
 - *Etofenprox*



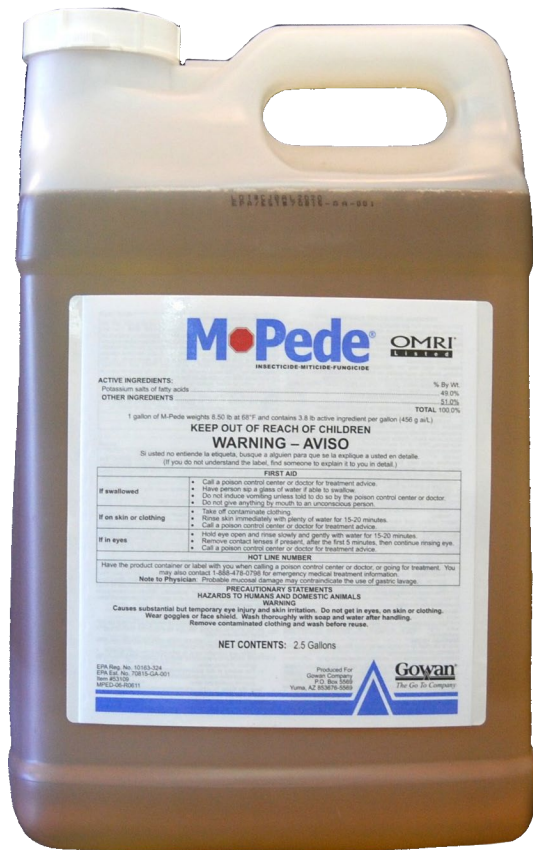


Yellow Products Examples

Red Category Pesticides



- Definition: A pesticide will be designated as a Red Category Pesticide if:
 - it contains a **WARNING** or **DANGER** signal word on the product label; OR
 - it has been designated as a restricted use pesticide, a state-limited-use pesticide or a regulated herbicide...



Red Product Examples





Hands On Exercise

- Tell US
 - Trade Name
 - Active Ingredient
 - Signal Word
 - Is it Green, Yellow or Red?