

Pesticide Use and Schools

Mike Helms

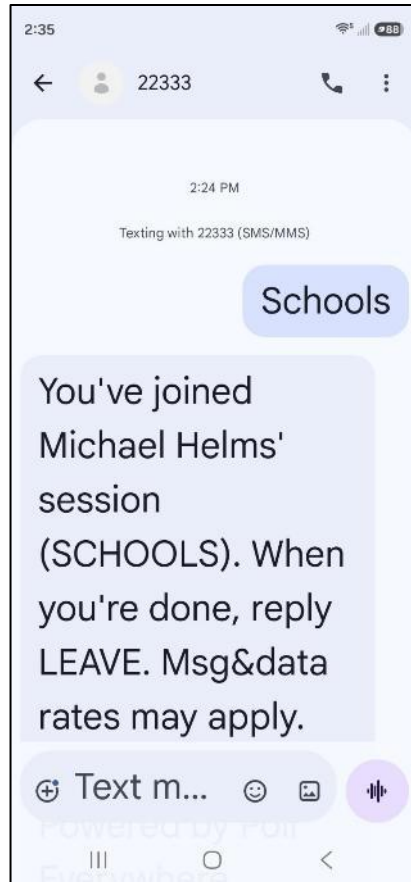
Pesticide Safety Education
Program Leader



Audience Participation

*Text Schools
to:*

22333

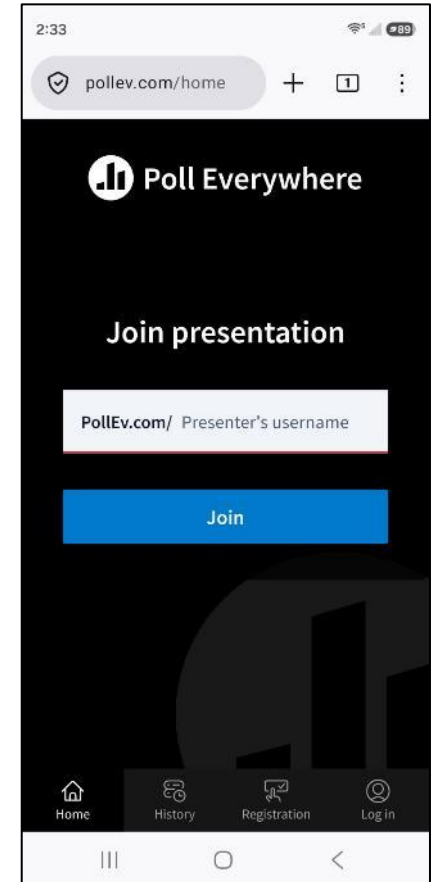


Go to:

pollev.com

User name:

Schools



Can pesticides be used in schools?

1

(A) Yes

100%

(B) No

0%

(C) What's a pesticide?

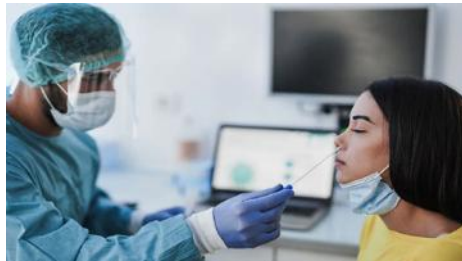
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Topics

1. What pesticides can be used in NYS
2. Who can apply pesticides on school property
3. Getting someone who can apply pesticides on school property
4. NYS pesticide regulations specific to schools
5. Pesticide labels

What Is a Pest?

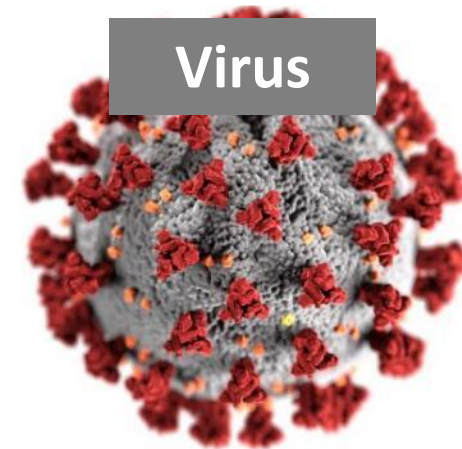
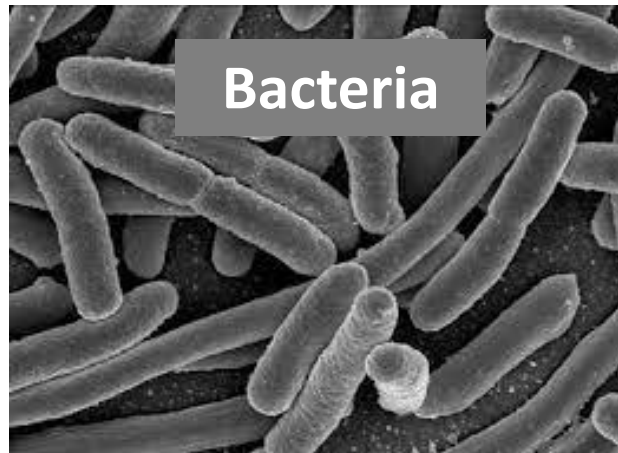
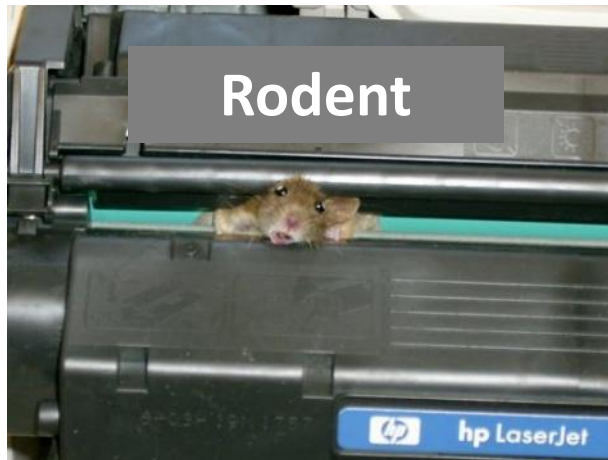
- Any living thing that has an undesirable impact on something that is important to us



What Is a Pest?



Photo credit: Dr. Margery Daughtrey



What Is a Pesticide?

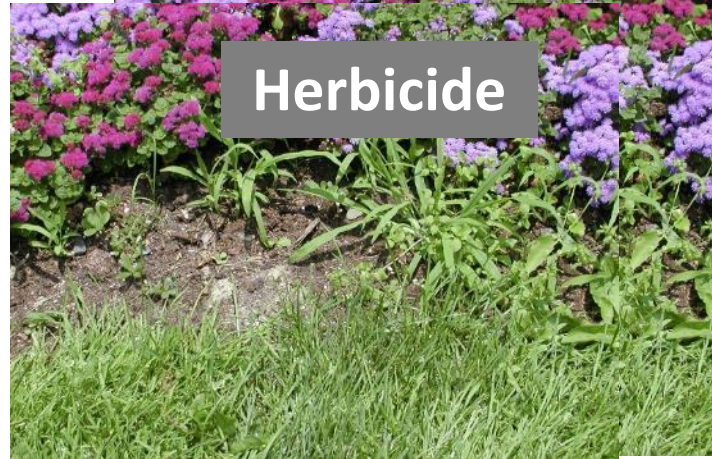
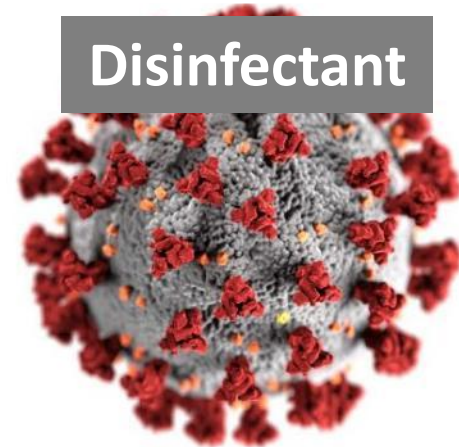


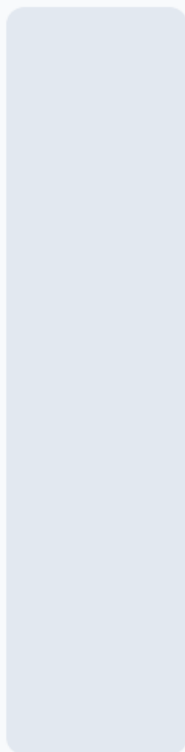
Photo credit: Dr. Margery Daughtrey



Home remedies can be used for pest control in New York State.

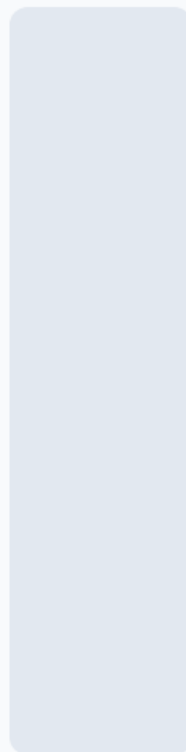
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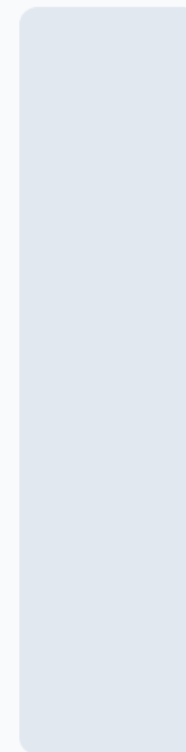
True

0%



False

0%



Not sure

What Pesticides Can Be Used in NYS?

Group	Risk Assessment	Use Allowed?

What Pesticides Can Be Used in NYS?

Group	Risk Assessment	Use Allowed?
Registered by NYSDEC	Thorough: EPA, DEC	Yes ^{1,2}

¹ Some can't be used on Long Island; restriction on product label.

² Safe Playing Fields Act prohibits use of many outdoor products on school grounds except for emergency applications.

The Standard for Registered Pesticides

The product will not cause
unreasonable adverse effects
to people and the environment when
used according to label directions.

The Pesticide Label



<https://extapps.dec.ny.gov/nyspad>

Department of Environmental Conservation

Bureau of Pesticides Management - Information Portal

Businesses and People

Applicators & Technicians
Verify the certification status of a pesticide applicator or technician.

Businesses & Agencies
Search for registered pesticide businesses or agencies.

Restricted Pesticide Dealers
Locate businesses that are permitted to sell restricted-use pesticides.

Exams and Courses

Courses
Search for pesticide certification training course.

Exams
Find an upcoming pesticide certification exam.

Online Forms

- [nFORM Application Instructions](#)
- [Pesticides Applicator and Technician Renewal](#)
- [Pesticide Certification Exam Registration](#)
- [Request a Replacement Certification Identification Card or Update Contact Information](#)
- [Business/Agency Registration Application](#)
- [Business/Agency Information Update](#)

Pesticide Product Information

Products
Search our database of pesticide products.

Product Open Data
Download delimited files with all Product open data

NYSPAD Product Data
Download delimited files with all NYSPAD data (current and archival).

Pending (NAI and MCL) Registrations
Download delimited files of pending NAI and MCL registrations.

NPIRS Public Website
State-by-state access to pesticide products registered with the EPA (this website is not managed by NY DEC).

Company/Product Text Files
Download text files with company information and product information.

NYSPAD Product Registration

- Currently registered products
- Currently registered labels
- Multiple searches:
 - EPA Registration Number
 - Product Name
 - Pest/site search
 - Registration status
- Registered pesticides is default search

Bureau of Pesticides Management - Information Portal

[Export Results](#) [Home](#)

Products **Active Ingredient Letters**

Product EPA Registration Number
Search:
For:

Names
Product Name:

Registrant
Name:
EPA Company Number:

[Advanced Search...](#)

[Search](#) [Reset](#)

Showing 1 - 20 out of 14495 Products

0% ACID BOWL & BATHROOM CLEANER [More](#)
EPA Reg. No. 10324-85-62512, Registrant PRO-LINK
Restrictions None LI Use Yes
Status REGISTERED-DISCONTINUED Type ANTIMICROBIAL, DISINFECTANT

0% ACID BOWL BATHROOM CLEANER [More](#)
EPA Reg. No. 47371-97-62512, Registrant PRO-LINK
Restrictions None LI Use Yes
Status REGISTERED Type ANTIMICROBIAL, DISINFECTANT

What Pesticides Can Be Used in NYS?

Group	Risk Assessment	Use Allowed?
Registered by NYSDEC	Thorough: EPA, DEC	Yes ^{1,2}
Exempt from registration	Much reduced: EPA	Yes

¹ Some can't be used on Long Island; restriction on product label.

² Safe Playing Fields Act prohibits use of many outdoor products on school grounds except for emergency applications.

Pesticides Exempt from Registration

- 25(b) or so-called “minimum-risk” pesticides do NOT undergo testing for health and environmental risk assessments



EPA Statement:

This product has not been registered with the United States *Environmental Protection Agency*. **Tree World** represents that this product qualifies for exemption from registration under the Federal Insecticide, Fungicide and Rodenticide Act.

In the United States,*dried blood* is an EPA exempted product/minimum risk pesticide and is exempt from the *Federal Insecticide, Fungicide, and Rodenticide Act* requirements, specifically under Section 25(b) (c.f. Federal Register, 61(45), Mar. 6, 1996) and is therefore not subject to federal registration.

What Pesticides Can Be Used in NYS?

Group	Risk Assessment	Use Allowed?
Registered by NYSDEC	Thorough: EPA, DEC	Yes ^{1,2}
Exempt from registration	Much reduced: EPA	Yes
Home remedies	None	No

¹ Some can't be used on Long Island; restriction on product label.

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Home Remedies: Illegal to Use in NYS

Claim	Reality
Chemical-free	
Pesticide-free	
Nontoxic	
All-natural	
Effective	
Safe	

Home Remedies: Illegal to Use in NYS

Claim	Reality
Chemical-free	Everything is made of chemicals
Pesticide-free	A chemical that controls pests is a pesticide
Nontoxic	Chemicals must be toxic to kill things
All-natural	Most use man-made products
Effective	Untested
Safe	Untested; often NOT safe

Who can apply wasp sprays on school property?



Cleaning staff

0%

Teacher

0%

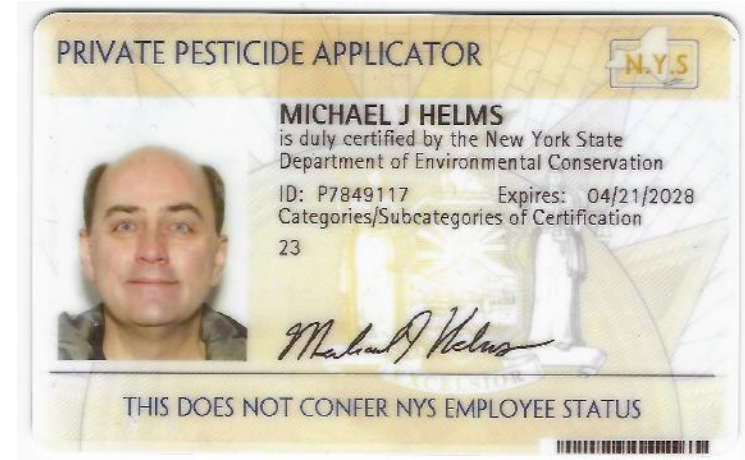
Certified applicator

0%

Who Can Apply Pesticides on School Property?

Who Can Apply Pesticides on School Property?

- Appropriate certification and training required for applications of any pesticide on school property **EXCEPT**:
 - General-use disinfectants and surface sanitizers used other than for cooling tower treatments



Who Can Apply Pesticides on School Property?

- Certified pesticide applicator
- Certified pesticide technician
- Trained individual under direct, on-site supervision of certified applicator who is within voice contact
 - Applicator and trained individual must have same employer

Who CANNOT Apply Pesticides on School Property?

- Anyone, including school staff, who has not met NYS certification and training requirements
- Students

Getting Someone Who Can Apply Pesticides on School Property

Contracting with a Pest Control Company



<https://extapps.dec.ny.gov/nyspad>

Department of Environmental Conservation

Bureau of Pesticides Management - Information Portal

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Pesticide Professionals



Restricted Pesticide Dealers



Pesticides Business/Agencies

[← Home](#)

Businesses

Business Name:

Registration #:

Category:

☐ Include Not-For-Hire Agencies

Location

State:

Region:

County:

City:

[Search](#)

[Reset](#)

Showing 1 - 20 out of 4134 Businesses

#1 EXTERMINATING CO

Business Registration #: 12778

3a - Ornamental and Turf

5b - Aquatic Insect

7a - Structural & Rodent Control

7c - Termite Control

7f - Food Processing

8 - Public Health

2216 FLATBUSH AVE
BROOKLYN, NY 11234
USA

[More](#)

Staff as Applicators



Agency Registration

- Public school districts and BOCES must register with NYSDEC as an agency if applying pesticides EXCEPT:
 - If only apply general-use sanitizers and disinfectants other than for cooling tower treatments
- Public school districts and BOCES are fee exempt

Agency Registration

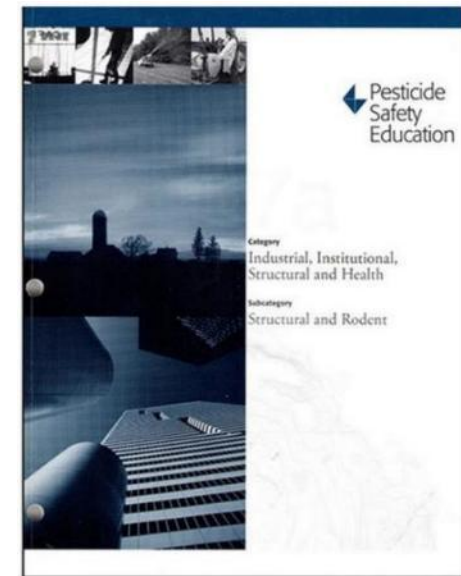
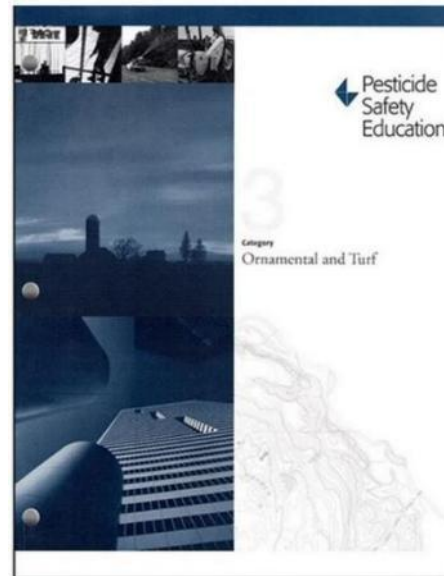
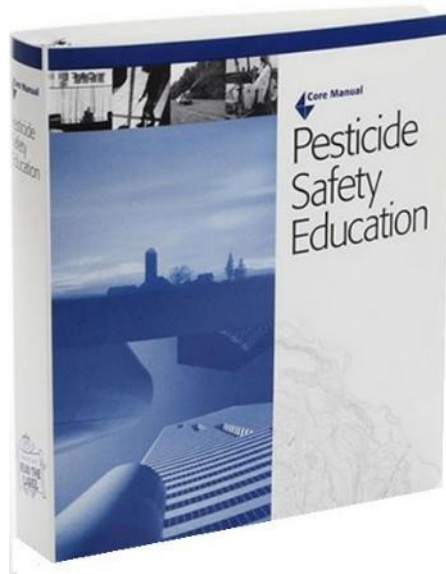
- Must employ at least one:
 - Certified applicator (for Private or for Commercial Category 7: Structural)
 - Certified applicator or technician (for Commercial Category 3: Ornamental & Turf)

Certification Eligibility Requirements

- Certified Technician (limit one category)
 - Experience working under certified applicator or
 - Relevant college degree or
 - Complete 30-hour training course
- Certified Applicator
 - Experience as technician or working under certified applicator or
 - Certification in state with which NY has reciprocity

Certified Commercial Applicator: Eligibility Requirements

- Pass Core and Category exams



Path to Certification: Starting from Scratch

Ornamental & Turf: Certified Applicator or Technician Needed

Certification Eligibility Requirements

- Certified Technician (limit one category)
 - Experience working under certified applicator or
 - Relevant college degree or
 - Complete 30-hour training course

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- Certified Technician (limit one category)
 - ~~• Experience working under certified applicator or~~
 - Relevant college degree or
 - Complete 30-hour training course
- Certified Applicator
 - Experience as technician ~~or working under certified applicator or~~
 - ~~• Certification in state with which NY has reciprocity~~

Structural: Certified Applicator Needed

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 - ~~Complete 30-hour training course~~
- ~~Certified Applicator~~
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 - ~~Certification in state with which NY has reciprocity~~

Hiring Someone Who Is or Is Eligible To Be Certified

HEAD CUSTODIAN-SCHOOL

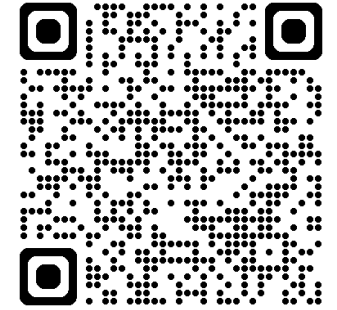
Knowledge, Skills, and Abilities:

- Skills and knowledge in the use of custodial equipment used in routine cleaning.
- Ability to obtain and maintain NYSDEC certification as a pesticide applicator in Structural Pest Control.

Applicator Fees and Recertification

	Commercial Applicator	Commercial Technician	Apprentice	Private Applicator
Exam Fee	\$100	\$100	n/a	\$100
License Fee	\$450/3 yr + \$150/added category	\$450/3 yr	None	\$25/5 yr
Recertification training	10-12 credits every 3 yrs	None	n/a	10 credits every 5 yrs

<https://psep.cce.cornell.edu/fact-sheets/>



- What Is a Pesticide?
- Hazard vs Risk
- Pesticide Registration
- How to Select a Pesticide Product
- Home Remedies to Control Pests
- Who Can Apply Pesticides in Schools?
- Storing Pesticides at Home



NYS Pesticide Regulations Specific to Schools

Safe Playing Fields Act and School Neighbor Notification Law

- Define “school” to include public/private/parochial schools and BOCES
- On top of pesticide regulations already discussed

Safe Playing Fields Act and School Neighbor Notification Law

- Define “school” to include public/private/parochial schools and BOCES
- On top of pesticide regulations already discussed

Certification and training requirements still apply!

Which of the following is true about the Safe Playing Fields Act?



(A) Prohibits all pesticide use on school turf.

0%

(B) Allows certain pesticides to be used on playing fields.

0%

(C) Doesn't pertain to BOCES.

0%

Safe Playing Fields Act (NYSED Law Section 409-k)

- No school shall apply pesticide to any turf, playgrounds, or athletic or playing fields EXCEPT:
 - Emergency application
 - Certain pesticides allowed

Safe Playing Field Act: What Is an Emergency?

- Not indicated in the law
- Guidance from NYSDEC, NYSDOH, NYSED, and OCFS says “emergency” does NOT include:
 - Routine or repetitive pest problems
 - Pests which can be managed with allowed pesticides or alternative practices
 - Applications for purely aesthetic purposes

Safe Playing Field Act: Emergency Application Approval

- Public school/BOCES: School board
- Private/parochial school:
 - State/County Dept of Health if public health issue
 - Dept of Environmental Conservation if environmental issue

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Certification and training requirements still apply!

School Neighbor Notification Law (NYSED Law Section 409-h)

- Prior notification of pesticide application to staff and persons in parental relation who request it
- Provide information about such notice to all staff and persons in parental relation
- Applies to any pesticide applied to school property (inside or out) EXCEPT:
 - Emergency application
 - Certain pesticides

School Neighbor Notification: Notice to All Staff/Parents

- Provide at beginning of school year (and to people in parental relations with a new student within 1 week of student enrolling during school year):
 - Pesticides might be applied during school year
 - How to be put on list to receive 48-hour written notification of applications
 - Contact name and phone number for more information

School Neighbor Notification: Notice to All Staff/Parents

- Provide within 2 school days of end of winter and spring recess and within 10 days of end of school year:
 - Reminder about notification list and contact
 - Date, location, product of all applications that required 48-hour notification since last notice
 - How to obtain further information on label warnings pertinent to protecting people and the environment

Who receives a 48-hour written notice of a pesticide application?

0

(A) Everyone in a school building.

0%

(B) A parent who has requested notification.

0%

(C) Only the head custodian.

0%

School Neighbor Notification: 48-Hour Written Notice

- To people on list who work at or have child at relevant facility
- Date and location of application
- Product name and EPA Registration Number
- Resources for obtaining more information about the products
- Name and number of school contact
- Copy publicly posted in facility

School Neighbor Notification: Emergency Application

- Necessary to protect against imminent threat to human health
- Before application, applicator must make good-faith effort to provide written notice
- After application, applicator must notify DOH, including justification

School Neighbor Notification Law: Emergency Application Approval

- Responsible party not stipulated in law or regulation
- Guidance from the State is lacking

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Certification and training requirements still apply!

Exempt Pesticides under the Two NYSED Laws

- Lists differ between 409-k (Safe Playing Fields) and 409-h (School Neighbor Notification)
- Reasons for exemptions also differ
 - 409-k: exempt = allowed for use
 - 409-h: exempt = 48-hour notification not required

Exempt Pesticides under the Two NYSED Laws

- Lists differ between 409-k (Safe Playing Fields) and 409-h (School Neighbor Notification)
- Reasons for exemptions also differ
 - 409-k: exempt = allowed for use
 - 409-h: exempt = 48-hour notification not required

Applicator certification and training requirements still apply!

Pesticides Exempt from 409-k AND 409-h

Exempted Pesticide	409-k	409-h
25(b) products (i.e., exempt from registration)	✓	✓
Boric acid and disodium octaborate tetrahydrate	✓	✓
Antimicrobials (sanitizers, disinfectants)	✓	✓
Directed-spray aerosols (≤ 18 fl oz) when used to protect people from imminent threat of stinging/biting insects and spiders	✓	✓

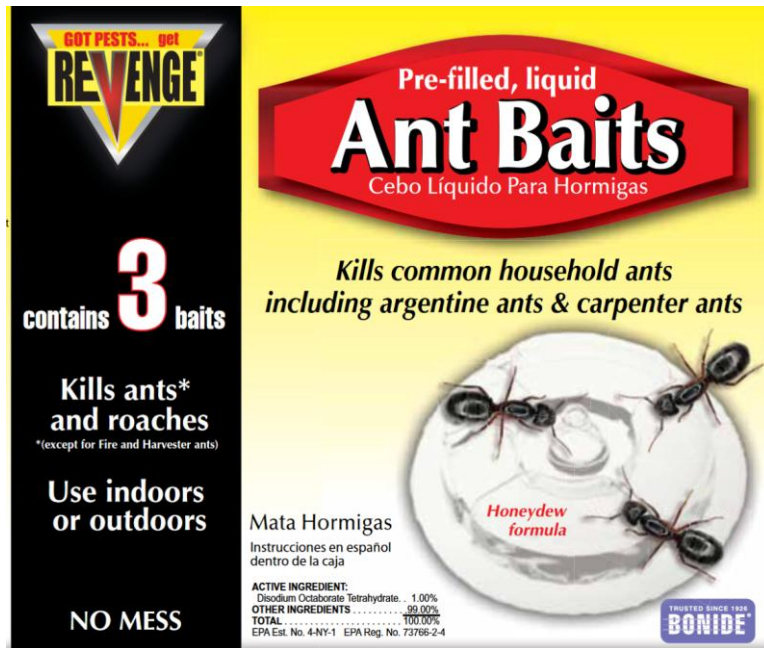
Pesticides Exempt from 409-k OR 409-h

Exempted Pesticide	409-k	409-h
Horticultural soaps/oils w/o synthetic pesticides	✓	
Non-volatile insect or rodent bait in tamper-resistant container	✓	
Non-volatile insect or rodent bait in tamper-resistant bait stations or in areas inaccessible to children		✓
Silica gels and other nonvolatile, ready-to-use insecticidal pastes, foams, and gels in areas inaccessible to children		✓
Reduced-risk pesticides		✓
Any pesticide if facility unoccupied for 72 hr after		✓

Examples of Exempted Pesticides

Disodium octaborate tetrahydrate,
many insect baits

Directed-spray aerosols (≤ 18 fl oz)
for stinging insects



Examples of Exempted Pesticides

Disodium octaborate tetrahydrate,
many insect baits

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for stinging insects

School staff who have NOT met NYS pesticide applicator certification and training requirements CANNOT use these products or any other pesticides anywhere on school property.

Pesticide Labels

Who must follow the directions on a pesticide label?



Only certified applicators.

0%

Anyone who uses a pesticide.

0%

No one. Labels are just guidance.

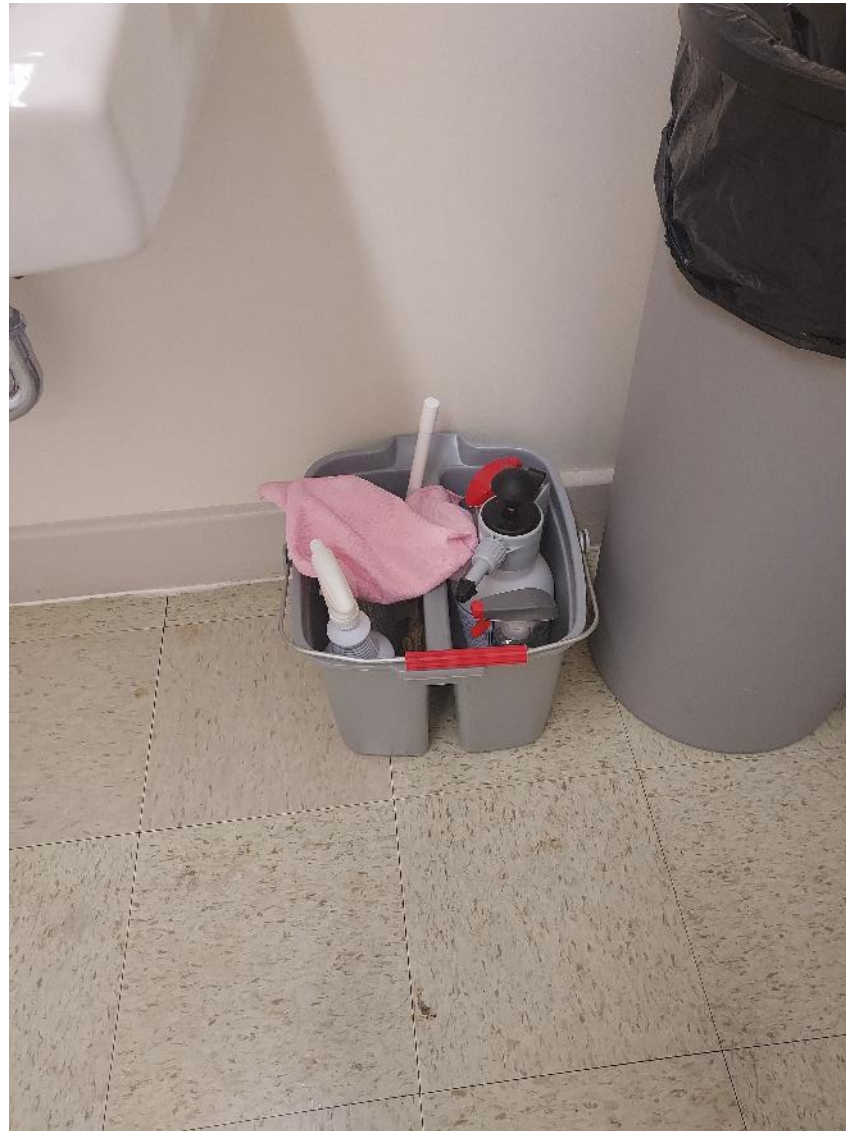
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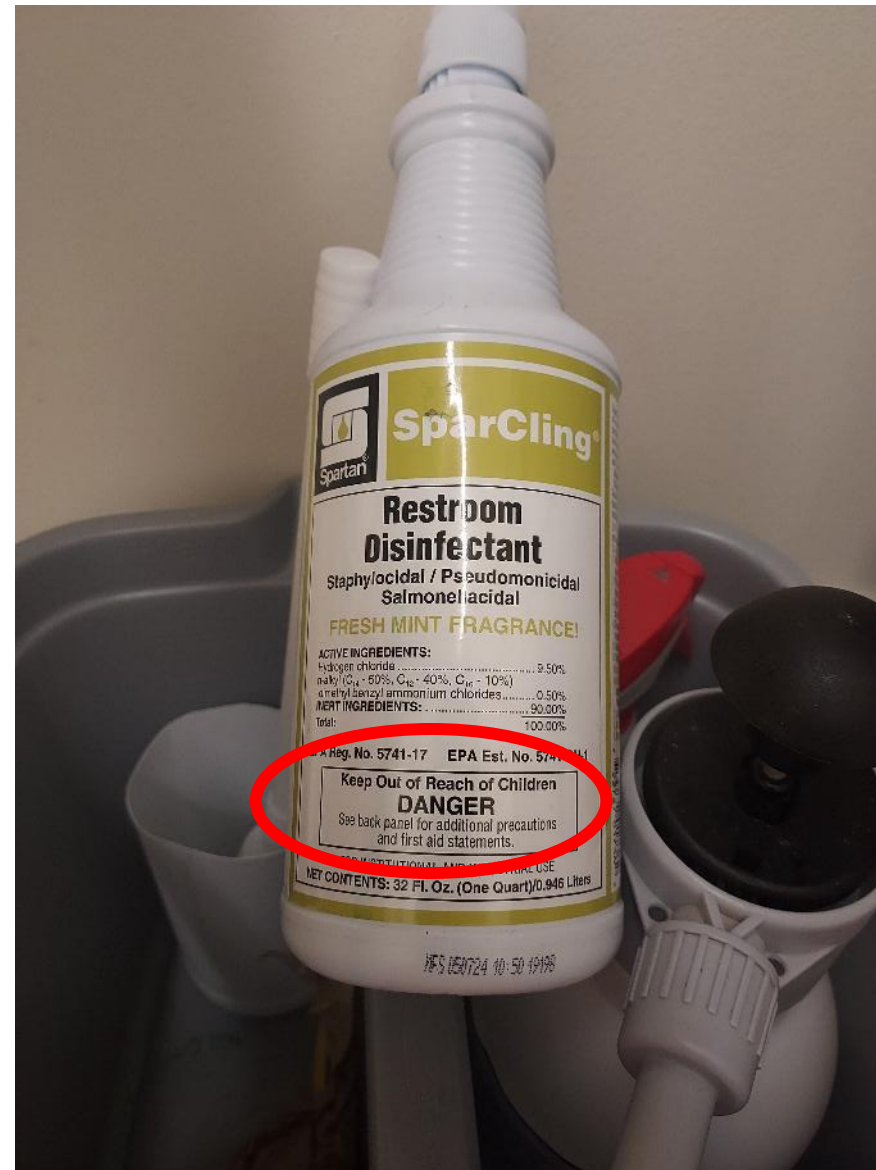
The Label is the Law

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

KEEP OUT OF REACH OF CHILDREN





STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal.

Pesticide Storage: Store in a cool, dry area inaccessible to children.

Container Disposal: Nonrefillable container. Do not reuse or refill this container. Close flip top and discard in trash.

Sites and Pests

- Required to be on the label

Pest Control on Outside Surfaces and Around Buildings

AVALON Insecticide will provide up to 1 month residual control of house flies. Length of residual control is dependant upon rate and surface treated.

Follow Additional Application Restrictions for Outdoor Surface and Space Sprays under DIRECTIONS FOR USE

Applications to vertical exterior surfaces (e.g., foundations) are permitted to a maximum height of 3 feet from ground level. Sections of vertical exterior surfaces that abut non-porous horizontal surfaces can only be treated if either 1) these sections are protected from rainfall and spray from sprinklers or 2) they do not drain into a sewer, storm drain, or curb-side gutter (e.g., not to sections that abut driveways or sidewalks that drain into streets).

For control of Ants, Carpenter Ants, Fire Ants, Armyworms, Lady Beetles, Bees, Beetles[†], Biting Flies, Boxelder Bugs, Centipedes, Chiggers, Chinch Bugs, Cicadas, Clover Mites, Cockroaches, Crickets, Cutworms, , Dichondra Flea Beetles, Earwigs, Elm Leaf Beetles, Firebrats, Fleas, Flies, Gnats, Grasshoppers, Hornets, Japanese Beetles[†], Midges, Millipedes, Mosquitoes, Moths, Scorpions, Silverfish, Sod Webworms, Sowbugs (Pillbugs), Spider Mites, Spiders (including Black Widow, Brown Recluse and Hobo Spiders), Springtails, Stink Bugs, Ticks (including Brown Dog Ticks), Vinegar (Fruit) Flies, and Wasps.

Personal Protection

- Usually listed in the “Precautionary Statements” section
- Minimum is listed on the label

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Socks and chemical resistant footwear
- Chemical resistant gloves
- Protective eyewear
- When mixing and loading wear a chemical resistant apron

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. Follow the manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergents and hot water. Keep and wash PPE separately from other laundry.

PRECAUTIONARY STATEMENTS

Hazards to Humans (and Domestic Animals)

CAUTION

Harmful if swallowed, inhaled or absorbed through skin. Avoid contact with skin, eyes or clothing. Avoid breathing spray mist. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, or using tobacco. Remove contaminated clothing and wash before reuse.

All pesticide handlers (mixers, loaders and applicators) must wear long-sleeved shirt and long pants, socks, shoes and chemical-resistant gloves. After the product is diluted in accordance with label directions for use, and/or when mixing and loading using a closed spray tank transfer system (such as an in-line injector system), shirt, pants, socks, shoes and water-proof gloves are sufficient. In addition, all pesticide handlers must wear a respiratory protection device¹ when working in a non-ventilated space. All pesticide handlers must wear protective eyewear when working in non-ventilated space.

¹Use one of the following NIOSH approved respirator with any R, P or HE filter or a NIOSH approved respirator with an organic vapor (OV) cartridge or canister with any R, P or HE prefilter.

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

PRECAUTIONARY STATEMENTS

Hazard to Humans and Domestic Animals

DANGER

Corrosive. Causes irreversible eye damage or skin burns. Harmful if swallowed or absorbed through skin or inhaled. Do not get in eyes, on skin or on clothing. Avoid breathing vapor or spray mist. Wear coveralls over long-sleeved shirt and long pants, socks and chemical-resistant footwear, goggles or face shield, and chemical resistant gloves (such as barrier laminate or butyl) rubber, nitrile rubber, neoprene rubber, PVC or viton). Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Remove contaminated clothing and wash clothing before reuse.

Rates

- Must use rate listed on label

Apply AVALON Insecticide using a 0.02 to 0.06% dilution as a residual spray to outside surfaces of buildings including, but not limited to, exterior siding, foundations, porches, window frames, eaves, patios, garages, refuse dumps, lawns such as grass areas adjacent or around private homes, duplexes, townhouses, condominiums, house trailers, apartment complexes, carports, garages, fence lines, storage sheds, barns, and other residential and non-commercial structures, soil, trunks of woody ornamentals and other areas where pests congregate or have been seen. Do not apply more than 1 oz. AVALON Insecticide per 1000 square feet. (Refer to the AVALON Insecticide Dilution Chart.). Higher application volumes may be used to obtain the desired coverage of dense vegetation or landscaping materials.

Pest	Application Rate AVALON Insecticide
Armyworms ¹ Cutworms ¹ Sod Webworm ¹	0.18 - 0.25 fluid oz. per 1000 sq. ft.
Annual Bluegrass Weevil (Hyperodes) (Adult) ² Banks Grass Mite ⁶ Billbugs (Adult) ³ Black Turfgrass Ataenius (Adult) ⁴ Centipedes Crickets Earwigs Fleas (Adult) Grasshoppers Leafhoppers Mealybugs Millipedes Mites ⁶ Pillbugs Sowbugs	0.25 - 0.5 fluid oz. per 1000 sq. ft.

Other Directions

- Need to follow all directions, including
 - Site-specific limitations/needs
 - Application equipment to use
 - Environmental needs

Thank you!

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