

Managing Pests in Child Care Centers Using Integrated Pest Management (IPM)



Curriculum

- Module 1 - Introduction
- **Module 2 - IPM in Child Care for Directors**
- Module 3 - IPM in Child Care for Maintenance
- Module 4 - IPM in Child Care for Care Givers
- Additional Pest Modules
 - Ants, bed bugs, cockroaches, lice, mice and rats.

The purpose of this course

- This presentation is designed to give several levels of training to the people who work in child care centers:
 - Center operators, directors, decision-makers
 - Center maintenance and custodial staff
 - Child care-givers, teachers, and nurses
- Training focused on pest reduction and prevention, and why this is important.

Module 2 – IPM in Child Care Operators, Directors, Decision-Makers

Goals:

1. Install policies and procedures to promote good pest management.
2. Inspire staff to participate.
3. Hire qualified pest managers.
4. Maintain good records.
5. Protect the health of children and staff.

Take home messages:

- Children should not be exposed to pests or pesticides.
- Pests and pesticides pose risks to children's health and safety.
- Customers expect clean, safe facilities for their children.

Take home messages:

- IPM can reduce risks from pests and pesticides.
- An IPM policy is best for managing pests in a way that is least harmful.
- IPM costs less over time.
- Preventing pests is the long-term goal.
- IPM provides long-term pest control.

Why is good pest control important?

- Children are more susceptible to bad effects of pesticides because:
 - They are small.
 - They spend more time on the floor (where pests and pesticides will be).
 - They explore the world with their hands and mouths.
 - Their bodies are less developed and prepared for toxins.

IPM saves money over time

- IPM depends on sanitation and building quality.
- Improving sanitation may cost money - new trash bins or equipment, additional staff time;
- Improving the facility may cost money – repair and replacement of structural features;



IPM saves money over time

It is worth the money to improve your facilities!



IPM saves money over time

- IPM does not include monthly or calendar spraying. That is a waste of money.
- Monthly or quarterly inspection is better.
- Improved sanitation helps avoid health code violations.
- An improved facility is cleaner, healthier and prevents pests.
- If pests are prevented, pest management costs and effort will be minimal.

Child Care Pesticide Laws in NY State and NYC

- In NY, child care operators are encouraged to adopt IPM policies.
- NYC Local Law 37 limits pesticide use on city-owned and city-operated private property.
- See www.nyc.gov/health/LL37 for more information.

Child Care Pesticide Notification

- Pesticide applicator must provide copy of pesticide product label to staff prior to any pesticide application.
- 48-hour prior notice to parents of a pesticide application
 - Location and specific dates of application
 - Product name and EPA Reg. No.
 - Day Care contact for more information
 - Specific statement.

Child Care Pesticide Laws in NY State and NYC

- Pesticides may only be applied in child care facilities by a licensed professional.
- See www.dec.ny.gov for a list of licensed professionals and companies.
- Get reliable referrals, check complaints.
- Do not rely on flashy websites to choose a company – speak with someone in person.

Do I hire a PMP?

- Yes, if pests are present and persistent.
- When pests are a health threat:
 - Flies cause food-borne illness.
 - Cockroaches cause allergies, asthma attacks.
 - Bed bugs and lice cause bites and will spread.
 - Wasps cause stings that may be life threatening.
 - Ants can bite and spread germs.
 - Rodents trigger asthma, cause allergies, food-borne illness AND can bite or cause injury.
 - Rodents can cause structural fires!

How do I hire a PMP?

- See your state's pesticide regulation agency for a list of licensed professionals and companies.
- Ask to see the company's license and insurance.
- Sign a contract **before** work is performed.
- Technicians should be polite, cleanly dressed and professional.

How do I hire a PMP?

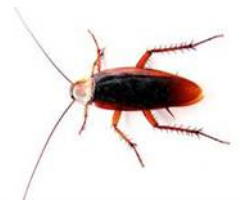
- The lowest fee is usually not the best service.
- EPA recommends that you hire a professional company that is third-party certified in IPM either from ProGreen or Green Shield.
- See www.IPMInstitute.org for more information.

How do I hire a PMP?

- Many PMPs are certified in advanced IPM
- Look for companies with these qualifications:
- www.npmagreenpro.org
- www.greenshieldcertified.org
- www.ecowisecertified.org (California)

IPM decision-making includes:

- How much risk is presented by the pest?
 - For example, a ladybeetle vs. cockroach
- Does it need to be addressed immediately, or can it wait?
- Do you have a protocol for this problem?
- What are the best management steps to take?



Record keeping is required

- Keep records of all pesticide application and make available for inspection
 - Names of chemicals used and EPA Reg. No.
 - Dates and locations of applications
 - Quantity used
 - Copies of all labels and MSDS sheets
 - Name of pests found and locations

ACTIVE INGREDIENT:
S-Hydroprone (CAS #65733-18-8) .. 0.36%
OTHER INGREDIENTS* : 99.64%
Total 100.00%

*Contains petroleum distillates

EPA Reg. No. 2724-484

Made in USA

The IPM logbook organizes records

- Logbook is the point of communication for all pest management issues including:
 - Complaints
 - Inspection results
 - Map of monitor locations and results
 - Actions taken
 - Pesticides applied
 - Material safety data sheets and labels
 - Pesticide poisoning hotline



The IPM logbook organizes records

- Pesticides can sicken people unexpectedly.
- In an emergency you should call the Poison Control Center Hotline at: 1-800-222-1222



Pesticide MSDS and labels

- Must be on site if used
- Label contains use instructions
- Hazard statements
- Precautions
- Storage and disposal



- CONTROLS ROACHES, STORED PRODUCT PESTS, DRAIN FLIES, AND FRUIT FLIES
- WITH GENTROL® IGR
- NON-REPELLENT
- DISSIPATING FOAM ASSURES COMPLETE COVERAGE
- COMPATIBLE IN BAITING PROGRAMS
- TREATS UP TO 1200 SQUARE FEET
- LONG-TERM CONTROL

SPECIMEN LABEL

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Total	100.00%

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KEEP OUT OF REACH OF CHILDREN
CAUTION
See additional precautionary statements

GENERAL INFORMATION

GENTROL® AEROSOL contains GENTROL® Insect Growth Regulator. The IGR disrupts the normal development of immature cockroaches, drain flies and fruit flies, and stored product pests (examples of these pests include: Indian meal moths, rice moths, tobacco moths, red flour beetles, confused flour beetles, lesser grain borers, merchant grain beetles, sawtooth grain beetles, warehouse beetles, cigarette beetles, and dermestid beetles). Roaches exposed to GENTROL AEROSOL will become adults incapable of reproducing. GENTROL AEROSOL also disrupts the normal life cycle of drain flies, fruit flies, and stored product pests; thus, killing these insects during the pupal stage. In both cases, the cycle of an infestation ends. GENTROL AEROSOL is intended for use in, but not limited to: apartment buildings, bakeries, bottling facilities, breweries, boiler rooms, cafeterias, candy plants, grocery stores, day care centers, hospitals, residential homes, office buildings, kitchens, laboratories, cereal

processing facilities, manufacturing plants, mausoleums, meat and produce canneries, nursing homes, restaurants, schools, locker rooms, stores, taverns, warehouses, pet stores, as well as various modes of transportation, such as aircraft, buses, trucks, trailers, rail cars, and marine vessels.

GENTROL AEROSOL is intended for use as a general surface spray, spot, or crack and crevice application.

Prior to using in commercial or residential food areas, please refer to the Food Handling Establishment Applications section of the label. The preparations prior to treatment and the clean-up after application described are also to be followed for residential use.

GENTROL AEROSOL is non-repellent and should be considered an important component in a cockroach baiting program. Baits are an important part of a total cockroach control program but are not a complete solution. GENTROL AEROSOL can reach those nymphs that fail to forage to baits and the IGR stimulates egg-bearing females to leave the harborage and feed.

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS CAUTION

Harmful if absorbed through skin. Causes moderate eye irritation. Avoid contact with eyes, skin, or clothing. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse.

Develop IPM protocols

- Your business's IPM protocol can be simple and should be page 1 of the IPM logbook.
- Provide clear action steps for staff when pests become a problem.
- Define roles and responsibilities of employees.
- Use to ensure parents/guardians and others* that a plan is in place.

Purchasing plan – Costs vs. savings

- Short term costs
- Materials to improve facilities
- Minor or major repairs
- Staff time
- New services
- Long term benefits
- Better air quality
- Safer, sturdier facility
- Fewer pests
- Less pesticide use in the building
- Lower risk of exposure

Purchasing plan – Costs vs. savings

- Remember that water leaks result in mold problems. Mold is dangerous and destructive to the building. Mold can cause severe health problems.



Purchasing plan

- Prepare to spend a little more to improve facilities. You might:
 - Seal all baseboard moldings to walls
 - Replace peeling paint or wallpaper
 - Fix a roof or window leak
 - Have windows re-screened
 - Buy and install door sweeps

Maintenance – custodial staff

- Cooperation and buy-in from staff.
- Custodians are the primary members of an IPM team.
- Their tasks include:
 - Building cleaning, sanitation, trash removal
 - Structural repairs
 - Reporting problem conditions and pest sightings

Impose strict cleaning rules

- All areas **MUST** be clean in a child care operation.
- Clean under appliances weekly.
- Wash trash bins daily if needed.
- Staff must clean out the microwave daily – remove splatter and crumbs.
- Make sure all drains are clean/cleaned monthly.

Communicate with parents/guardians

- Orientation package should include your pest management plan.
- Open communication about pest issues and assure customers that you are proactive.
- Disclose incidents immediately (head lice found in a classroom, for example).
- Disclose actions taken, including pesticide use.
- Do not disclose names of those who may be affected.

Public relations

- Use IPM as a positive aspect when speaking to potential clients.
- IPM is cutting-edge, green, and the safest type of program.
- IPM STAR certification is available for those who want to take this idea further.
- It is very marketable to be green.

Specific pest issues

- Inspection and correct identification will define the needs of your facility.
- Use Pest Modules to train staff about pests that affect your child care facility.
- Encourage all staff to be a part of IPM as a path to a healthier workplace and safe environment for children.

The End

