Pesticides 101

Amanda Couture Board of Pesticides Control

John Pietroski Board of Pesticides Control

Kathy Murray Ph.D. MDACF Animal and Plant Health

Maine Board of Pesticides Control pesticides@maine.gov (207)287-2731



Maine Board of Pesticides Control

Licensing Requirements for Pesticide Applicators in the State of Maine

Maine Board of Pesticides Control www.thinkfirstspraylast.org 207-287-2731 pesticides@maine.gov



Who needs a commercial license?

- Anyone who applies <u>any</u> pesticide...
 - for any type of compensation
 - in areas open to the public
 - as a government employee, including school employees
 - also includes application of restricted use pesticides for other than agricultural purposes (e.g., termite control)



No endorsement intended or implied



Certification & Licensing for Commercial Applicators

You must become certified to be eligible for a license

Certification = passing exams

- Core exam
- Category Exam—in this case 7C3

Must score at least 80%

This will certify you to apply for a Commercial Operator Applicator license



Certification & Licensing for Commercial Applicators

Every school system wishing to use powered application equipment must have at least one Commercial Master Applicator

Certification = passing exams

- Written Regulations Exam
- Verbal Exam with a BPC staff member

Must score at least 80%

This will certify you to apply for a Commercial Master Applicator license



How do you comply?

- Exams are normally given in Augusta
 - BPC will also do our best to accommodate
 school staff by offering exams for a group
 of employees at convenient locations if
 they cannot come to Augusta
 - Must send in a paper application with the \$15 fee to sign up for exam or create a profile and pay online – MePERLS
 - We are currently only accepting paper applications currently

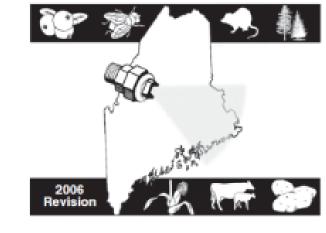


- Must pass each written, closed-book exam (80% passing grade)
 - The core exam is based on the Pesticide Education Manual available from the Cooperative Extension, Pest Management Office 1-800-287-0279

MAINE

PESTICIDE EDUCATION MANUAL

A guide to proper use and handling



Expiration and recertification

- All Commercial Licenses expire on December 31st of the third year after issuance (12/31/20-12/31/23)
 - Licensed applicators must earn continuing education (recertification) credits during their 3-year licensure period
- Commercial Operator applicators must earn 6 credits during the 3-year period
- Commercial Master applicators must earn 9 credits during the 3-year period
 - Excess credits are <u>not</u> carried over into the next certification period





What is a pest?

Bacteria, viruses (germs)

Fungi, plant diseases

Weeds

- Insects, mites, etc.
- Vertebrates

White Tail Deer







Mice



Squirrels





Potato Blight

COVID-19

Virginia Creeper

Carpenter Ants

Before using lethal methods to control pest wildlife contact the Maine Warden Service or District Wildlife Biologist









What is a pesticide?

- Any substance or mixture of substances intended for:
 - preventing,
 - destroying,
 - repelling, or
 - mitigating any pest



- Includes plant growth regulators, defoliants and desiccants
- Does not include:
 - -- fertilizers or nutrients
 - -- most beneficial organisms (eg insects, nematodes)
 - Does not include traps or mechanical means



What is a pesticide? Examples: **Herbicides** Insecticides **Fungicides Rodenticides Bactericides** Virucides **Miticides Slimicides** Plant growth regulators





These are pesticides

- Disinfectants and Sanitizers *(including bleaches and peroxides)*
- Fungicides (mold, mildew and plant disease control products)
- Insecticides and Herbicides (weed-killers)
- Rat & Mouse poison baits

















No endorsement intended or implied



These are pesticides

Deer and rabbit repellents

Insect and tick repellents

Plant growth regulators







No endorsement intended or implied

Natural, Organic and 'Green' Pesticides ARE Pesticides

- Including products derived from plants, bacteria, fungi, or minerals
- Examples: Dipel, Mycotrol, Thymol, Cedarcide, Safer's Soap, Neem, Diatomaceous Earth









What about using products that are not labeled as pesticides?

- Household products and mixtures are NOT allowed for pest control
- Many of the materials used seem "safe" because we eat them or use them on our skin
 - Exposure routes may be different
- What we eat may not be safe to breathe





CHEF: ALLERGY ALERT

I have a severe allergy to FISH.

Even trace amounts of fish (bass, flounder, cod, etc.) can cause a life threatening reaction. Avoid cross contamination by cleaning all utensils, pans, cooking surfaces and cutting boards. Please verify safe cooking oils, marinades, sauces, seasonings, and ingredients are used in my meal.

 $Thank \ you \ for \ a \ safe \ dining \ experience. \ www. Allergy Free Table. com$

No endorsement intended or implied



What are the benefits?



Protect food supply

 Nuisance or public health pest control

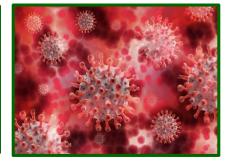


Browntail Moth



Mosquito





Deer Tick

Covid 19

What is IPM?

Integrated Pest Management is a science-based approach that combines a variety of techniques. By studying their life cycles and how pests interact with the environment, IPM professionals can manage pests with the most current methods to improve management, lower costs, and reduce risks to people and the environment.

IPM tools include:

- Alter surroundings
- Add beneficial insects/ organisms
- Prevention of pest problem developing
 Disrupt insect

behaviors

- Grow plants that resist pests
- Disrupt development of pest Use pesticides

1 IDENTIFY/ MONITOR

Determine the causal agent and its abundance (contact your local extension agent for help).

EVALUATE-

The results from monitoring will help to answer the questions: Is the pest causing damage? Do we need to act? As pest numbers increase toward the economic threshold further treatments may be necessary.

3 PREVENT

Some pest problems can be prevented by using resistant plants, planting early, rotating crops, using barriers against climbing pests, sanitation, and sealing cracks in buildings.

ACTION

IPM uses multiple tools to reduce pests below an economically damaging level. A careful selection of preventive and curative treatments will reduce reliance on any one tactic and increase likelihood of success.

5 MONITOR Continue to monitor th

Continue to monitor the pest population. If it remains low or decreases, further treatments may not be necessary, but if it increases and exceeds the action threshold, another IPM tool should be used.

WHERE CAN YOU PRACTICE IPM?



Buildings and Homes:

Inspect, identify pests, keep pests out, clean to deny pests food and water, vacuum, trap, or use low-risk pesticides.



Farms:

Check for pests/pest damage regularly, identify accurately, choose pest-resistant plant varieties, encourage/introduce beneficial insects, time planting to avoid pests, and if needed use low-risk pesticides.



Managed Natural Systems: Identify the pest and use management options that have minimal risks to pollinators, humans, and pets.



The Entomological Society of America is the largest organization in the world serving the needs of entomologists and other insect scientists. ESA stands as a resource for policymakers and the general public who seek to understand the importance and diversity of earth's most diverse life form insects. Learn more at www.entsoc.org.

Identify and Monitor





Protect Beneficial Insects

- Learn to recognize beneficial insects
- Minimize insecticide usage
- Use spot treatments with selective products when possible



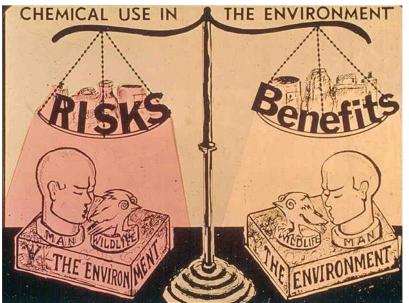


When do we need to make a pesticide application ?

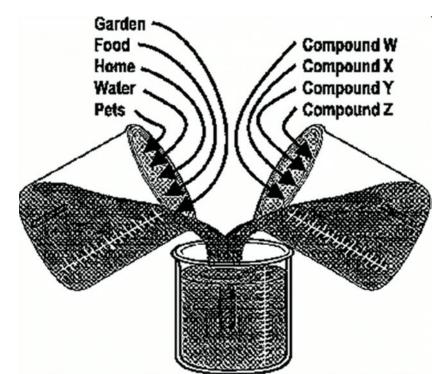




Risk assessment



Prior to 1996 FQPA



Aggregate and Cumulative Risk Cup

After 1996 FQPA

Risk Assessment

RISK = TOXICITY X EXPOSURE

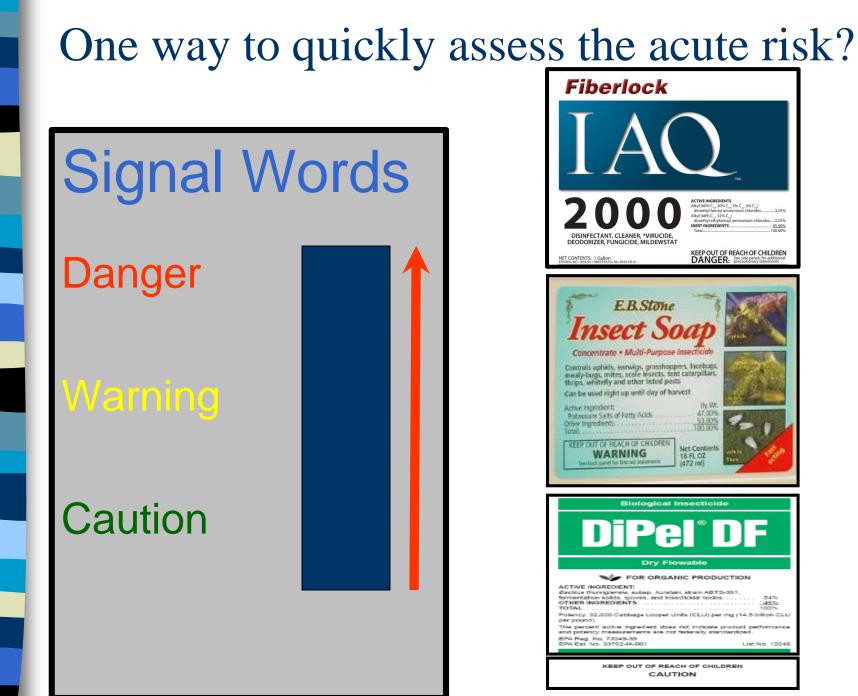




KEEP OUT OF REACH OF CHILDREN DANGER POISON PELIGRO



I TOLD YOU



No endorsement intended or implied

SIGNAL WORDS

CAUTION - Slightly Toxic

WARNING – Moderately Toxic

DANGER – Highly Toxic

Complete Directions for Use

Herbicide

Kouneup

A complete broad-spectrum postemergence, herbicide for industrial, turf, ornamental, forestry, roadside, utility rights-of-way, and other listed terrestrial weed control. (For a complete bits of terrestrial use sites, see the Directions for Use section of this label.)

CTIVE INDREDIENT:

S-DELECT

*Glyphusate, N-(phosphenomethy()glycine, in the form of its isopropylamine sait. 41.0%, THER INGREDIENTS (including surfactant). <u>18.0%</u>, 100.0%

Contains 480 grams of the active ingredient glyphosate, in the form of its isopropylamine sait, per liter or 4 pounds per U.S. gallen, which is equivalent to 356 grams of the acid, glyphosate, per liter or 3 pounds per U.S. gallon (30.4% by weight). Keep out of reach of children CAUTION See inside for additional proceediess

Causes evel initiation

Avoid contact with eyes or cluthing

FIRST AID	
IF IN EYES	 Fold eye open and riese slewly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after the first 5 minutes then continue rissing eye. Call a person control center or dector for treatment advice.
dector, or • You can al information	product container or labeling with you when calling a poison control center or ping for treatment. to call (204) 694-4000, collect, day ar night, for energency medical treatment n. ct is identified as Roundup PRO Herbicide, EPA Registration No. 524-475.

Read the entire label before using this product.

the only scoring to label directions.

CROUP

REPORTED

AVOD CONTACT OF THIS HERBICIDE WITH FOLIAGE, GREEN STERIEL EXPOSED NON-ANDOXY ROOTS OR FRUIT OF CROPS, DESIMALE, PLANTS AND THEES, AS SERVERE PLANT INJURY OR DESTRUCTION COULD RESULT. THIS IS AN EIRO-USE PRODUCT. INONSANTO COMPRAY DOES NOL INTERIO AND HIS NOT REGISTERED IT FOR REFORMULATION. SEE INONYDUAL CONTINER LIBER, FOR REPRESADING LIMITRIONS.

Road the "LIME" OF WARRANY AND LABILERY' studement at the end of the label before loging to using. If terms are not acceptable, return at error prepared.

A Ng, No. 534-475 clied for: MDNSANTO COMPANY 800 N. LINDEERCH BLVD. 57. UDUS, MISSDUR, 63167 LSA



What are the human risks?

Acute

- Rash
- Nausea
- Eye ticks
- Stomach cramps
- Death



Chronic



- Cancer
- Birth defects
- Allergies
- Organ damage
- Endocrine effects
- Nerve disorders

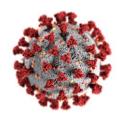


Risk vs. Risk

 West Nile Virus, EEE Malaria, COVID-19

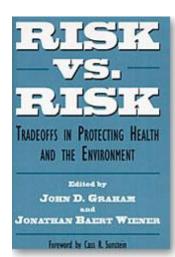


Lyme Disease













Organic ≠ Safe



Synthetic ≠ Highly toxic

Natural ≠ Safe

No endorsement intended or implied







All substances are poisons; there is none which is not a poison. The right DOSE differentiates a poison from a remedy."

-Paracelsus (1493-1541)

Even too much water can kill – over 1.5 liters/hour



Woman dies after water-drinking contest

Water intoxication eyed in 'Hold Your Wee for a Wii' contest death

Ap Associated Press Updated: 10:24 p.m. ET Jan 13, 2007

SACRAMENTO, Calif. - A woman who competed in a radio station's contest to see how much

in a radio station's contest to see how much water she could drink without going to the bathroom died of water intoxication, the coroner's office said Saturday.

Jennifer Strange, 28, was found dead Friday in her suburban Rancho Cordova home hours after taking part in the "Hold Your Wee for a Wii" contest in which KDND 107.9 promised a Nintendo Wii video game system for the winner.

"She said to one of our supervisors that she was on her way home and her head was hurting her real bad," said Laura Rios, one of Strange's coworkers at Radiological Associates of Sacramento. "She was crying and that was the last that anyone had heard from her." NBC VIDEO



Woman in water drinking contest dies Jan. 15: Sacramento Bee reporter Christina Jewett talks to MSNBC-TV's Contessa Brewer about the death of a woman who had competed in a radio station contest.



What are the risks?

Wildlife effects



Water contamination



Our food





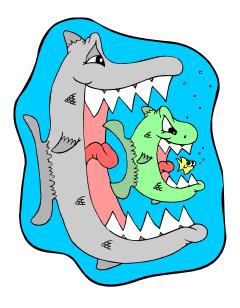


Concerns with pesticide dependence past, present and future

- Pest resistance
- Environmental persistence
- Bioaccumulation: when a chemical accumulates in animal tissues



 Biomagnification: when an organism accumulates residues at higher concentrations than the organisms they consume



Concerns with pesticide dependence past, present and future

Misuse

Secondary pest outbreaks

Non-target/Beneficial organism effects

Pest Resurgence

Statesman Journal: Firm Fined For Bee Die-Offs

statesman_journal | Dec. 19, 2013 11 a.m. | Updated: Dec. 20, 2013 9:49 a.m.

CONTRIBUTED BY

Massive bumblebee die-offs last summer were caused by improper pesticide applications, an Oregon Department of Agriculture investigation has concluded.

ODA has issued six civil penalties totaling \$2,886 in connection with three incidents, in Wilsonville, downtown Portland, and West Linn.



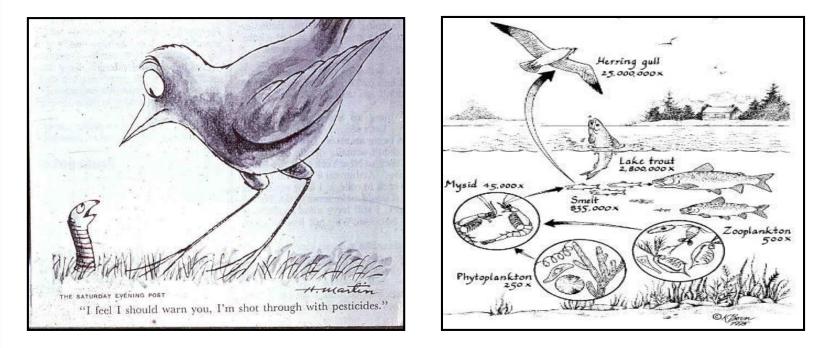




Remember "Silent Spring"



"Those who contemplate the beauty of the earth find reserves of strength that will endure as long as life lasts. There is something infinitely healing in the repeated refrains of nature -- the assurance that dawn comes after night, and spring after winter." - Rachel Carson, Silent Spring



*Biomagnification of chlorinated hydrocarbons like DDT or Dieldrin

Fiberlock



Alkyl (68% C., 32% C.) dimethyl ethylbenzyl ammonium chlorides..... 2.25% NERT INGREDIENTS 100.00%

DISINFECTANT, CLEANER, *VIRUCIDE DEODORIZER, FUNGICIDE, MILDEWSTAT

NET CONTENTS: 1 Gallon EPA REG. NO. 1839-95-73884 EPA Est. No. 8325-PA-01

KEEP OUT OF REACH OF CHILDREN DANGER: See side panels for additional precautionary statements



PRECAUTIONARY STATEMENTS

95.50%

HAZARDS TO HUMANS AND DOMESTIC ANIMALS DANGER, KEEP OUT OF REACH OF CHILDREN, CORROSIVE, Causes irreversible eye damage and skin burns. Do not get in eyes, on skin or on clothing. Wear goggles or face shield, rubber gloves, and protective clothing. Harmful if swallowed. Remove contaminated clothing and wash before reuse. Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.



Pesticide Registration

 To be legal for use in Maine, all pesticides must be registered by both:



-EPA*

-BPC



*Some "reduced risk" pesticides have been deregulated by the EPA

EPA exempt pesticides 25b

- Some pesticides have been deregulated by EPA
 - Exempt from
 Federal registration
 - Must be registered by State of Maine
 - Exempt from toxicity testing and FQPA
 - NOT risk free

Active ingredients in some of these products:

- Clove oil
- Peppermint oil
- Thyme oil
- Sodium lauryl sulfate
- Dried blood

No endorsement intended or implied





EPA exempt pesticides 25b

Claims Regarding Control of Microorganisms

The label cannot bear claims to control or reduce microorganisms, such as bacteria or viruses, that pose a threat to human health. For example, minimum risk products may not claim to:

- . "Sterilize"
- . "Disinfect."
- . "Sanitize."
- . "Kill germs."



What does registration mean?

- Not a safety guarantee
- Reasonable certainty of no harm, but not risk free

Must read and follow the label to manage the risk



Pesticide Classifications

 General Use – Lower risk, available over-the-counter

- Restricted Use Higher risk, only available at licensed dealerships for purchase by licensed applicators
- State Restricted Aquatic Herbicide Pesticides



No endorsement intended or implied

PELIGRO

Pesticide Registration - Pesticide Labeling

- Labels are legal documents that provide directions for pesticide mixing, application, storage & disposal
- Users must comply with all instructions on the pesticide label & labeling



FIFRA 2ee



- Read and follow the label & SDS
- Do your homework
- If you are a commercial applicator
 - only use products approved for the site
 - do not use products designed homeowner use

Germicidal CleanerQ

CLEANER, DISINFECTANT, DETERGENT, VIRUCIDE*, FUNGICIDE

ACTIVE INGREDIENTS

Octyl decyl dimethyl ammonium chloride	0.814%
Dioctyl dimethyl ammonium chloride	0.407%
Didecyl dimethyl ammonium chloride	0.407%
Alkyl (50% C14, 40% C12, 10% C16) dimethyl	
benzyl ammonium chloride	1.085%
INERT INGREDIENTS	<u></u>
Total	100.000%
EPA Reg. No. 1839-168-8722 EPA Est. No. 86091-WI-	1, 88120-WI-1

(Subscript on Lot Code corresponds to manufacturing location.)

KEEP OUT OF REACH OF CHILDREN **DANGER**

This product for use in:

- · Hospitals, nursing homes, medical and dental offices and clinics.
- · Restaurants and bars, cafeterias, institutional kitchens, fast food operations and food storage areas.
- Institutional facilities, laboratories, factories, business and office buildings, restrooms, hotels and motels and transportation terminals.
- Institutions, schools and colleges, churches, classrooms, athletic facilities and locker rooms.
- · Food processing plants.
- · Veterinary clinics, kennels, breeding and grooming establishments, zoos, pet shops, and other animal care facilities.
- · Automotive garages, boats, ships, buses, trains, taxis and airplanes.



Read the label before...

- Buying the pesticide
- Storing the pesticide
- Mixing and applying the pesticide
- Disposing of unused pesticide and empty containers





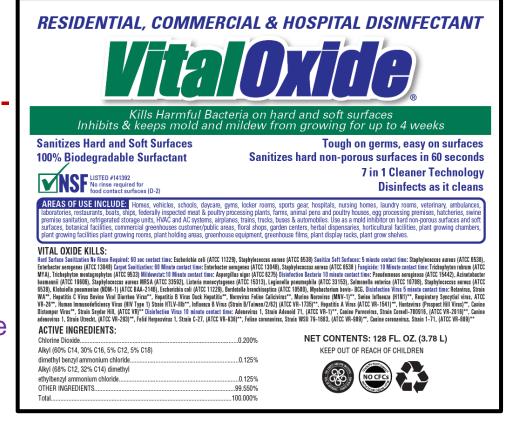
Label "Rules of Thumb"

- The site or crop must be stated on the label **Schools**
- The target pest does not need to be listed – **Covid -19**

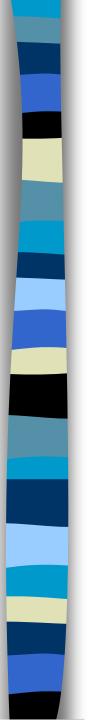
Any application method may be used, unless prohibited by the label -Fogger

Applications may be made at a rate less than that stated on the label, not more! **Read the Label**

Tank mixtures are OK, unless the label says otherwise



No endorsement intended or implied





Label





Remember, READ THE LABEL

It's the Law







ACTIVE INGREDIENTS

Alkyl (60% C ₁₄ , 30% C ₁₆ , 5% C ₁₂ , 5% C ₁₈) dimethyl benzyl ammonium chlorides	2.25%
Alkyl (68% C, , 32% C,)	
dimethyl ethylbenzyl ammonium chlorides.	2.25%
INERT INGREDIENTS	.95.50%
Total	100.00%

DEODORIZER, FUNGICIDE, MILDEWSTAT

NET CONTENTS: 1 Gallon EPA REG. NO. 1839-95-73884 EPA Est. No. 8325-PA-01

FIRST AID

or going for treatment.

rinsing eye. Call a poison control immediately for treatment artificial respiration, preferably Have the product container or center or doctor for treatment advice. Have person sip a glass of by mouth-to-mouth, if possible. label with you when calling a advice. If on skin or clothing: water if able to swallow. Do not Call a poison control center or poison control center or doctor, Take off contaminated clothing. induce vomiting unless told to do doctor for further treatment Rinse skin immediately with so by the poison control center or If in eyes: Hold eye open and plenty of water for 15-20 doctor. Do not give anything by rinse slowly and gently with minutes. Call poison control mouth to an unconscious person. water for 15-20 minutes. Remove center or doctor for treatment If inhaled: Move person to fresh contact lenses, if present, after advice. If swallowed: Call air. If person is not breathing, call the first 5 minutes, then continue poison control center or doctor 911 or an ambulance then give

KEEP OUT OF REACH OF CHILDREN DANGER: See side panels for additional precautionary statements

advice.

NOTE TO PHYSICIAN: Probable mucosal damage may contraindicate the use of gastric lavage.



IAQ 2000 is a moderate risk pesticide.

True False

IAQ 2000 is a moderate risk pesticide.

True False

Danger + Poison = **High Toxicity** Fiberlock



ACTIVE INGREDIENTS

Alkyl (60% C, , 30% C, , 5% C, , 5% C,)	
dimethyl benzyl ammonium chloride	2.25%
Alkyl (68% C, , 32% C,)	
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INERT INGREDIENTS	
Total	

TM

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KEEP OUT OF REACH OF CHILDREN

See side panels for additional precautionary statements

rinsing eye. Call a poison control immediately for treatment artificial respiration, preferably

TO PHYSICIAN: Probable mucosal damage may contraindicate the use of gastric lavage.

What should be done if someone swallows IAQ 2000

- 1. Call Poison Control
- 2. Give victim sips of water
- 3. Do not induce vomiting
- 4. Check the label for first aid instructions

What should be done if someone swallows IAQ 2000

- 1. Call Poison Control
- 2. Give victim sips of water
- 3. Do not induce vomiting
- 4. <u>Check the label for first aid</u> <u>instructions</u>

What should be done if someone swallows IAQ 2000?

FIRST AID

Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

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for treatment

artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.

NOTE TO PHYSICIAN: Probable mucosal damage may contraindicate the use of gastric lavage.



IAQ 2000 is a _____

1.Virucide
 2.Miticide
 3.Rodenticide

9



IAQ 2000 is a _____

1.Virucide2.Miticide3.Rodenticide

9

Fiberlock





NET CONTENTS: 1 Gallon

EPA REG. NO. 1839-95-73884 EPA Est. No. 8325-PA-01

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ACTIVE INGREDIENTS

Alkyl (60% C14, 30% C16, 5% C12, 5% C	
dimethyl benzyl ammonium chlor	ides 2.25%
Alkyl (68% C, ,, 32% C,)	
dimethyl ethylbenzyl ammonium	chlorides 2.25%
INERT INGREDIENTS	95.50%
Total	

KEEP OUT OF REACH OF CHILDREN DANGER: See side panels for additional precautionary statements

rinsing eye. Call a poison control immediately for treatment artificial respiration, preferably

contraindicate the use of gastric lavage.

The Environmental Protection Agency Reg No. for IAQ 2000 is

> 1.1839-95-73884 2.8320-1-C4 3. 287-2731

Fiberlock





NET CONTENTS: 1 Gallon EPA REG. NO. 1839-95-73884 EPA Est. No. 8325-PA-01

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dimethyl ethylbenzyl ammonium chlorides..... 2.25%

rinsing eye. Call a poison control immediately for treatment artificial respiration, preferably

Total

ACTIVE INGREDIENTS

Alkyl (68% C, ,, 32% C,)

INERT INGREDIENTS

Alkyl (60% C1,, 30% C1, 5% C1, 5% C1,) dimethyl benzyl ammonium chlorides.....

95,50% 100.00%

Probable mucosal damage may contraindicate the use of gastric lavage.

The Environmental Protection Agency Reg No. for IAQ 2000 is

> 1. **1839-95-73884** 2.8320-1-C4 3. 287-2731

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Alkyl (68% C, ,, 32% C,)	
dimethyl ethylbenzyl ammonium chlorides.	2.25%
INERT INGREDIENTS	.95.50%
Total	100.00%

KEEP OUT OF REACH OF CHILDREN DANGER: See side panels for additional precautionary statements

rinsing eye. Call a poison control immediately for treatment artificial respiration, preferably

NOTE TO

Probable mucosal damage may contraindicate the use of gastric lavage.

IAQ 2000 is formulated to disinfect porous surfaces ___?

True
 False

IAQ 2000 is formulated to disinfect porous surfaces ___?

True
 False

Use Fiberlock IAQ 2000 to clean and disinfect non-porous personal protective safety equipment, protective headgear, hard hats, half mask respirators, full face breathing apparatus, gas masks, goggles, spectades, face shields, silicone rubber or PVC hearing protectors and vinyl covered ear muffs. When using IAQ 2000 to disinfect nonporous surfaces, how many ounces per gallon is recommended ___?

1. 1 ounce
 2. 2 ounces
 3. 8 ounces

When using IAQ 2000 to disinfect nonporous surfaces, how many ounces per gallon is recommended ___?

1. 1 ounce
 2. <u>2 ounces</u>
 3. 8 ounces

DISINFECTION - To disinfect inanimate, hard, non-porous surfaces add 2 ounces of this product per gallon of water. Apply solution with a mop, cloth, sponge, hand pump trigger sprayer or low pressure coarse sprayer so as to wet all surfaces thoroughly. Allow to remain wet for 10 minutes, then remove excess liquid. When using IAQ 2000 to disinfect inanimate, hard, non-porous areas, the surfaces should remain wet for ___?

1. 1 Hour
 2. <u>10 Minutes</u>
 3. 45 Seconds

When using IAQ 2000 to disinfect inanimate, hard, non-porous areas, the surfaces should remain wet for ___?

1. 1 Hour
 2. <u>10 Minutes</u>
 3. 45 Seconds

DISINFECTION - To disinfect inanimate, hard, non-porous surfaces add 2 ounces of this product per gallon of water. Apply solution with a mop, cloth, sponge, hand pump trigger sprayer or low pressure coarse sprayer so as to wet all surfaces thoroughly. Allow to remain wet for 10 minutes, then remove excess liquid. IAQ 2000 can be used to treat Coronavirus?

True
 False

IAQ 2000 can be used to treat Coronavirus?

True False

*VIRUCIDAL ACTIVITY – This product, when used on environmental, inanimate, hard, non-porous surfaces at 2 ounces per gallon of water, exhibits effective virucidal activity against Influenza A2/Japan (representative of the common flu virus), Herpes Simplex Type 1, Adenovirus Type 2, Vaccinia virus (representative of the Pox virus group), Human Coronavirus (ATCC VR-740, Strain 229E), Human Immunodeficiency Virus Type I (HIV-1), Hepatitis B Virus (HBV), Hepatitis C Virus (HCV), Norovirus (Norwalk Virus), Bovine Viral Diarrhea Virus (BVDV), Feline calicivirus

IAQ 2000 can be used to treat pathogenic fungi?

True
 False

IAQ 2000 can be used to treat pathogenic fungi?

1. <u>True</u> 2. False

FUNGICIDAL ACTIVITY - At the 2 ounces per gallon dilution, this product is also fungicidal against the pathogenic fungi, Trichophyton mentagrophytes, when used as directed on hard surfaces found in bathrooms, shower stalls, locker rooms, exercise facilities or other clean, hard, non-porous, surfaces commonly contacted by bare feet. Follow the Disinfection directions.



Safety Data Sheet

- •Identification: for the product and supplier
- •Hazards: physical (fire and reactivity) and health
- •**Prevention**: steps you can take to work safely, reduce or prevent exposure, or in an emergency
- •**Response**: appropriate responses in various situations (e.g., first-aid, fire, accidental release)

Safety Data Sheet

SDS Date: August, 2016

Safety Data Sheet

Per GHS Standard Format

SECTION 1: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Identifier

Product Name: IAQ 2000 No. 8320 General Use: Disinfectant, Virucide, Fungicide Product Description: Disinfectant & Cleaner Chemical Family: Quaternary ammonium chloride blend EPA Registration Number: 1839-95-73884

Information on the Supplier of the Safety Data Sheet

Manufactured For: Fiberlock Technologies, Inc. 150 Dascomb Road Andover, MA 01810 P: 800-342-3755 F: 978-475-6205 Emergency Telephone Numbers: CHEM TEL: (U.S.): 1-800-255-3924 (Outside the U.S.): 813-248-0585 Poison Control Center (Medical): 800-222-1222

SECTION 2: HAZARDS IDENTIFICATION

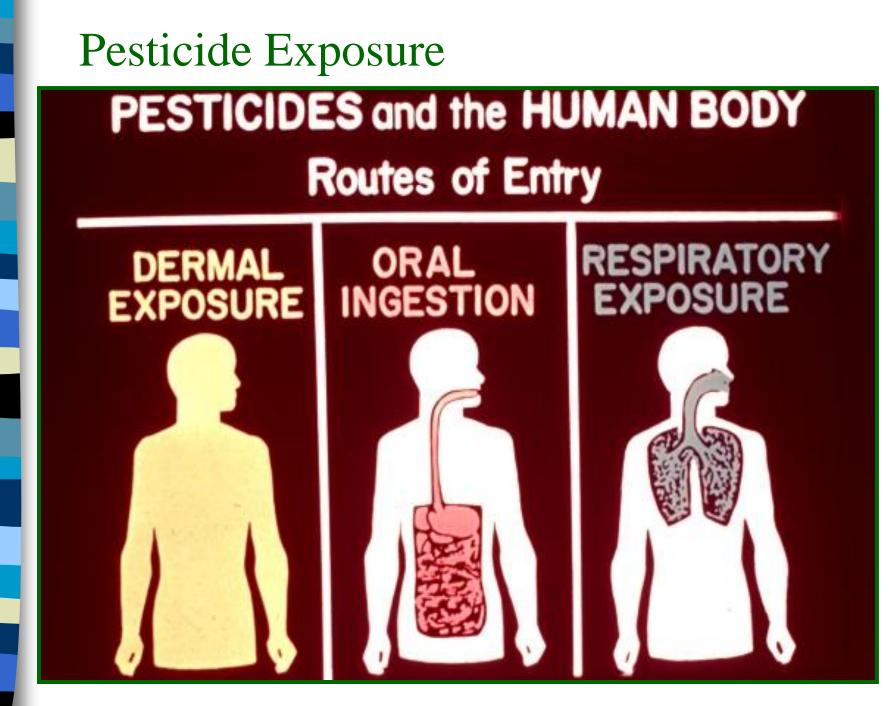
Signal Word: DANGER



GHS Label Statements Hazard Statements: Causes severe skin burns and eye damage. Harmful if swallowed. Toxic to aquatic life.

GHS Classifications

This product is considered hazardous by The 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200) Health: Acute Toxicity (Oral), Category 5 Skin Corrosion, Category 1C Eye Corrosion, Category 1 Environmental: Acute Hazards to the Aquatic Environment, Category 1

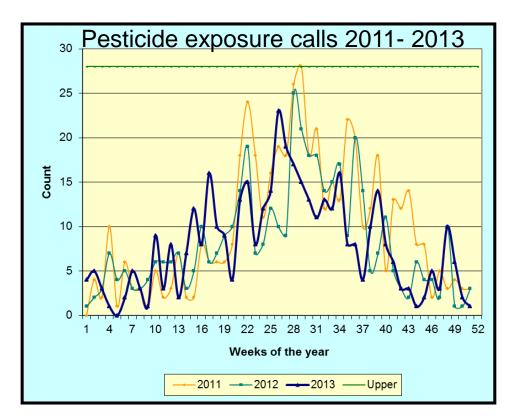


Pesticide Exposure Deaths

- Majority are suicides
- Many happen when children get into improperly stored products

- Most exposures to children under 1 are due to rodenticides
 - Very few occupational







Photograph by: Bradley Karp , MyMcMurray.com

True Stories

- In 2008, an 8-year old boy drank paraquat that had been put in a **Dr. Pepper bottle**, which he found on a windowsill in the garage.
- He died in the hospital 16 days later.
 - His older brother had used the product on weeds around the house and put it in the bottle in the garage.
- The older brother obtained the product from a family friend who was a **Certified Private Applicator**.

Father dies after accidentally drinking from Lucozade bottle filled with weedkiller

By DAILY MAIL REPORTER UPDATED: 10:40 EST, 9 December 2010



A father has died after getting up in the night to quench his thirst and drinking from a Lucozade bottle which had been used to store weedkiller.

Phillip Ward, 36, found the bottle in the kitchen after returning 'very drunk' from a day out.

The bottle had been left by Mr Ward's father, Michael Ward, who had been using it in the garden the day before.

Phillip didn't realise it contained deadly paraquat weedkiller.



U.S. & Maine Reported Poisonings & Exposures

- Pesticides account for 10.3% of all reported poisonings in the USA in 2012
 - Insecticides, herbicides, fungicides, etc. accounted for 3.3% (US)
 - Disinfectants & pool chemicals accounted for 7% (US)
 - 32% of those pesticide related
 poisonings were in children
 under 6 and rodenticides are
 the class of pesticides most
 likely to be the cause



No endorsement intended or implied



In an emergency call for help and have a copy of the label handy

PRECAUTIONARY STATEMENTS(continued) HAZARDS TO HUMANS AND DOMESTIC ANIMALS

POISONING SYMPTOMS — Methomyl poisoning produces effects associated with anticholinesterase activity which may include weakness, blurred vision, headache, nausea, abdominal cramps, discomfort in the chest, constriction of pupils, sweating, slow pulse, muscle tremors. If poisoning symptoms appear, refer to First Aid section on front panel of DuPontTM LANNATE® LV label and seek medical attention at once.

NOTE TO PHYSICIAN: Probable mucosal damage may contraindicate the use of gastric lavage.

TREATMENT — Atropine sulfate should be used for treatment. Administer repeated doses, 1.2 to 2.0 mg. intravenously every 10 to 30 minutes until full atropinization is achieved. Maintain atropinization until the patient recovers. Artificial respiration or oxygen may be necessary. Allow no further exposure to any cholinesterase inhibitor until recovery is assured.

Do not use 2-PAM for exposure to LANNATE® LV alone. However, for exposure to combinations of LANNATE® LV and organophosphorous insecticides, 2-PAM may be used as required to supplement the atropine sulfate treatment. Do not use morphine.

For medical emergencies involving this product, call toll free 1-800-441-3637.

Northern New England Poison Center 1-800-222-1222

The back of your license has EMERGENCY PHONE NUMBERS

State of Maine Maine Department of Agriculture,Conservation and Forestry	BOARD OF PESTICIDES CONTROL 28 State House Station
BOARD OF PESTICIDES CONTROL	Augusta, Maine 04333-0028
	www.thinkfirstspraylest.org
License Number: COA-7928	207-287-2731
JOHN T PIETROSKI	
DEPT OF ACF-BOARD OF PESTICIDES CONTROL	EMERGENCY PHONE NUMBERS:
Commercial Operator	Poison Center 1-800-222-1222
Categories: 2	National Pesticides Info Center 1-800-858-7378
TUDID ATTOX DATE: 10/01/0001	Board of Pesticides Control 🕺 1-207-287-2731
EXPIRATION DATE: 12/31/2021	DEP Spill Response Number 1-800-482-0777



Mild Poisoning

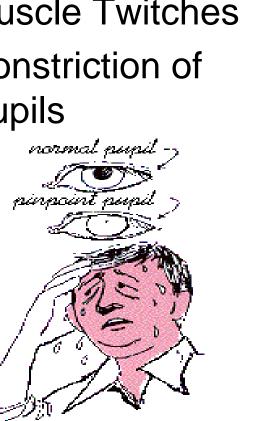
- Fatigue
- Rashes
- Headache
- Dizziness
- Blurred Vision
- Excessive Sweating
- Nausea and Vomiting
- Stomach Cramps
- Diarrhea

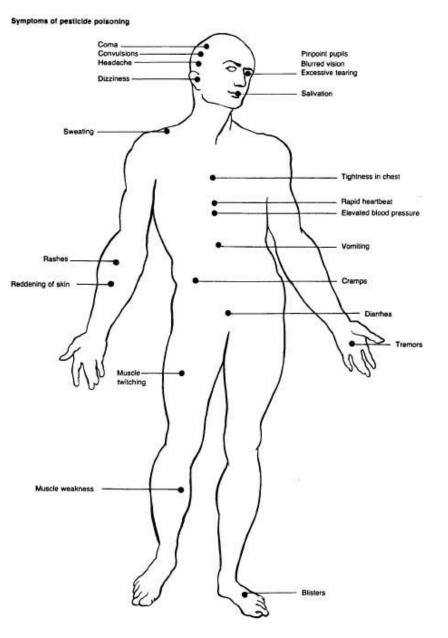


- Be careful not confuse pesticide exposure symptoms with the flu
- If pesticides splash in your eyes always rinse with clean water for at least 15 minutes

Moderate Poisoning

- Unable to Walk
- Weakness
- Chest Discomfort Muscle Twitches
- Constriction of Pupils





Severe Poisoning







Exterminator owner: 'I would have told the family ... to get out'

By Erin Alberty And Judy Fahys

The Salt Lake Tribune

Published February 10, 2010 8:46 pm

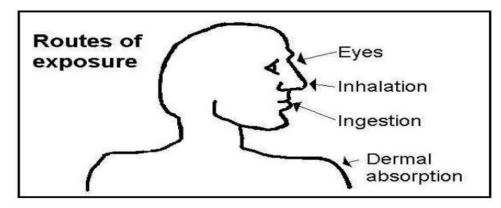
Pesticide » Bugman operator says use of chemical that may have killed 2 girls wasn't authorized.

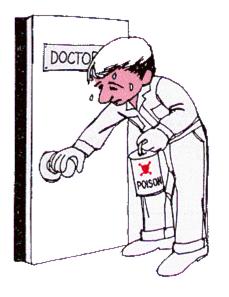


Share This Article

This is an archived article that was published on sltrib.com in 2010, and information in the article may be outdated. It is provided only for personal research purposes and may not be reprinted.

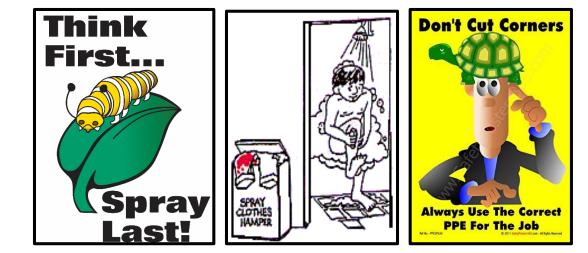
Bountiful » The owner of the company that placed a pesticide believed to have killed two Layton girls said Wednesday he would have warned the family to leave their home had he known what his employee had done.





Exposure Reduction

- Avoidance
- Personal protective equipment
 - Good hygiene
 - Worker monitoring
 - Follow label and regulations



Personal Protective Equipment (PPE)

Some materials that are chemical-resistant to this product are barrier laminate or viton. For more information, follow instructions in Supplement Three of PR Notice 93-7. If you want more options, follow the instructions for category H on an EPA chemical resistance category selections chart.

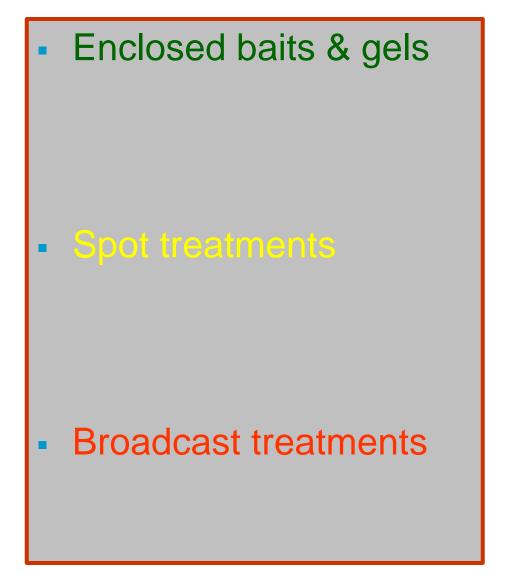
Loaders, applicators and all other handlers must wear:

- Coveralls over long-sleeved shirt and long pants
- Chemical-resistant gloves
- · Chemical-resistant footwear plus socks
- A NIOSH-approved dust mist filtering respirator with MSHA/NIOSH approval number prefix TC-21C or a NIOSH-approved respirator with any N, R, P, or HE filter

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.

The label is a legal document-the label is the law!







Worst

Greater dermal absorption

- Warm, moist areas: groin, armpits, head, neck
- Pesticide formulations affect absorption
 Least absorbed

Most absorbed



Unless otherwise noted on the label EC's should always be added to a tank mix last

Please choose the two pesticide formulation types with the lowest exposure potential

	Formulation Type	Percent Active Ingredient
1.	Granular	3 - 15%
2.	Ready to Use Baits, Gels or	_iquids 1 - 15%
3.	Dust	5 - 10%
4.	Aerosol	1 - 5%
5.	Wettable Powder	50 - 85%
6.	Liquid Concentrate	40 - 90%

Note: Granular pesticides can be very hazardous to birds



How is risk reduced?



PPE—It's not just a recommendation, it's federal law

MAKE SURE SAFETY EQUIPMENT



CLEANLINESS LEAKS TEARS BROKEN SEAMS







Always tuck sleeves into gloves when making applications over your head

TIGHT FACIAL SEAL IS IMPORTANT

Pressure check before each use!

 Positive pressure check: Put hand over exhalation valve and <u>exhale</u> gently. If there is pressure in the mask, it's a good fit



Pressure check before each use!

- Negative pressure
 check: Cover cartridges
 with hands, inhale gently,
 and hold breath for 10
 seconds. If the facepiece
 exhibits no leakage, the
 respirator fits properly
- Facial hair does not allow a respirator to seal!
- Filters must always be changed according to the manufacturer's instructions





Limitations of Personal Protective Gear

- Must be kept clean
- Respirator filters must be changed according to manufacturer's directions
- Rubber suits: heat exhaustion
- Not adequate against individual sensitivities
 - Fumigant gases penetrate rubber

NORTH

5500 & 7700 Series Half Mask Air

Purifying

Respirator

Operating and Maintenance Instruction Manual

4.1 SERVICE LIFE

The service life of this respirator will vary depending on the work environment.

4.1.1 CARTRIDGES

When you are using a gas or vapor cartridge respirator which does not have End-Of-Service-Life Indicators, you must establish a change out schedule that will result in cartridges being changed before the end of their useful service life. North provides EZ GUIDETM software for assisting the user in establishing a change out schedule.

If the respirator has End-Of-Service-Life Indicators, the cartridges must be changed when the color of either one of the indicators match the color standard indicated on the cartridge.

4.1.2 PARTICULATE FILTERS

When you are using a particulate filter respirator, or a gas or vapor respirator with filters attached, the filters should be replaced when breathing becomes difficult.

Any "R" class filter if used in an oil environment must be replaced after a total of 8 hours use, or sooner, regardless of breathing resistance.

5 TO TAKE OFF THE RESPIRATOR

- 1) Go to an area with uncontaminated breathable air.
- 2) Loosen headbands and remove the facepiece.

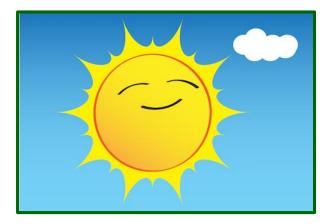
Laundering Pesticide Contaminated Clothing

- Use hot or warm water and heavy-duty liquid detergent
- Use 2 cycles for moderate to heavy contamination
- Rinse the washer with an "empty load"



Line dry washed PPE









What are the Laws?

 Federal EPA: Environmental Protection Agency



- FIFRA: Federal Insecticide Fungicide Rodenticide Act
- FFDCA: Federal Food Drug and Cosmetic Act
- FQPA: Federal Quality Protection Act
- Regulations (WPS, Certification, etc.)



What are the Laws?

 State BPC – Title 7 & Title 22 + Regulations

http://www.maine.gov/dacf/php/pesticides/laws.shtm

- Maine has stricter regulations than the EPA
- A product must be registered by both the EPA and the State of Maine to be legal for use in Maine

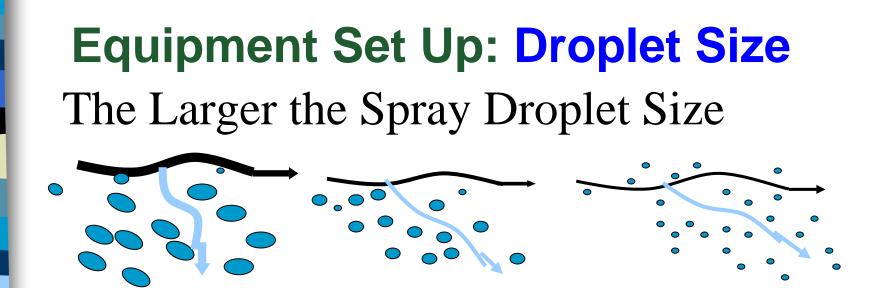




Who is on the Board of Pesticides Control?

- 2 public members (Deven Morrill & Curtis Bohlen PhD)
- 1 medical doctor (Jack Waterman MD)
- 1 IPM specialist from U-Maine (John Jemison Jr. PhD)
- 1 forestry specialist (Clark Granger PhD)
- 1 commercial applicator (Dave Adams)
- 1 private applicator (grower) (Bruce Flewelling)





The Less Distance the Droplet Drifts

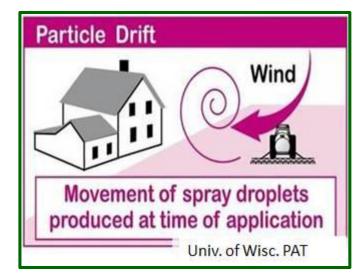
Pesticide formulations with the smallest droplets are the most hazardous to your lungs





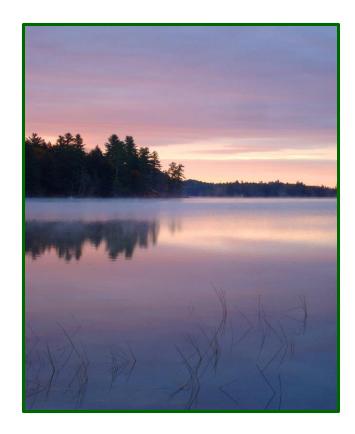
Sensitive Areas

- Before application you must identify and record all sensitive areas within 500 feet of the target site
 - Sensitive areas include:
 - Homes, businesses, schools and associated grounds
 - Athletic fields
 - Recreational areas
 - Crop or livestock areas
 - Water bodies, wetlands, etc.
 - Sensitive areas likely to be occupied (SALOs)



Residue Standard

- Prima facie evidence of violation – 1% or greater residue on SALOs
- Standards of harm
 - Drift onto organic or conventional crops
 - Residues detected on persons or vehicles using public roads
 - Documented human illness from drift
 - Enforcement considerations
 - Standard of care exercised
 - Degree of harm
 - Risk of adverse effects from the pesticide used





Must not spray when the wind exceeds 15 mph



Ideal application conditions are between 2 & 10 mph

Notification requirements

For any outdoor ground application, neighbors may request to be notified of applications within 500 feet of a sensitive area on their property

For any outdoor aerial application, neighbors may request to be notified of applications within 1000 feet of a sensitive area on their property

For non-agricultural applications, anyone can pay a \$20 (fee can be waived) to be listed on a notification registry that triggers automatic notice of applications within 250 feet of the listed property

Board of Pesticides Control

Pesticide Notification-Your Rights & Responsibilities

It's All about Communication!

Maybe your next door neighbors apply <u>pesticides</u> to their lawn or trees. Or there's a farm or orchard near your home where pesticides might be used for crop protection. You've wondered about the pesticides that are applied outdoors in your vicinity and want to know in advance when these products are used.

You have the right to know, but you also have the responsibility to take the first step in opening communication with your neighbor. <u>Maine law</u> assures you that right in two ways:

- Request for Notification (for all outdoor pesticide applications)
- Maine Pesticide Notification Registry (for most non-agricultural pesticide applications)

Whichever of the two means of notification you choose, you will find that communication between you and your neighbors who use pesticides will help avoid one of the most common issues that arises between neighbors being surprised when something unexpected occurs. Communication informs the people who use pesticides of your desire to be notified. And, you can then take measures to protect yourself and your family from unintended or incidental exposure by closing windows, taking clothes off the laundry line, or keeping children and pets indoors.

Pesticides are used every day in Maine for control of insects, weeds, and other pests, to protect our food supply, ourselves, and our homes and gardens. Examples of people who use pesticides include homeowners, renters, landscape and lawncare professionals, farmers (conventional and organic), foresters, utilities and rights-of-way managers, and public land managers. Similarly, examples of places where pesticides may be used include businesses, homes, farms, institutions, and public spaces.

Everyone has the right to use pesticides, but with that right comes the responsibility to follow the pesticide application laws, including reading and following label directions, and notifying nearby neighbors who request it.

Spraying too close to water & wetlands is prohibited

Broadcast applications of pesticides are not allowed within 25 feet of the high-water mark







Mixing & Loading Rules

- No mixing or loading within 50 feet of high-water mark.
- Mixing and loading pesticide concentrate is when there is the highest risk of exposure/poisoning.
 - Water transfer pumps must not be contaminated with pesticides & must have an anti-siphon device
- Mixing and loading should be done in an area where it cannot leach into groundwater
- Pesticide exposure can also occur while cleaning and maintaining application equipment





Water Quality Protection Rules

- Pesticide containers must be fastened securely to vehicles
- Never transport pesticides in the cab of a truck or inside of a car
 - Spills must be cleaned up immediately and contaminated soils must be removed and disposed properly









Storage

- Buy only what you need
- Lock them up
- Keep in original containers— Never store pesticides in other containers
- BPC advises marking original containers with the purchase date
- Never store in basement!
- Do not use wooden shelves
- It is recommended to post warning signs





Some Keys to Preventing Spills

- Regular safety checks of transport vehicles
- Safe driving habits
- A thorough understanding of application equipment





Spill Procedures

- Protect yourself first
- Attend to the injured
- Contain the spill
- Call the BPC & <u>DEP</u>
- Absorb standing liquid
- Clean up contaminated soil and absorbents
- Dispose of wastes properly





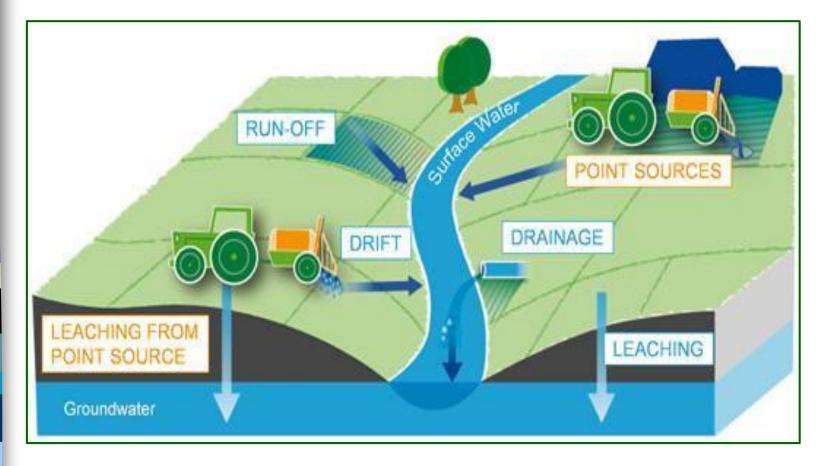


Spill Procedures

Kitty litter is a good choice for cleaning up liquid spills



Pesticides Can Drift or Run Off Into Surface Waters



- Water-soluble pesticides are much more likely to leach into groundwater
- Well over two dozen pesticides have been detected in Maine groundwater

Leaching

Leaching is the movement of contaminants, such as watersoluble pesticides or fertilizers, carried by water downward through permeable soils. Generally speaking, most pesticides adsorb to soil particles (especially clay), become immobile, and do not leach.

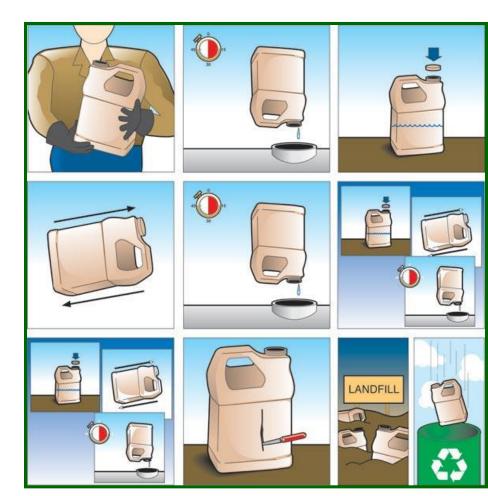
Adsorption – A process that binds **pesticides** to soil particles, often because of the attraction between the chemical and soil particles. Positively charged **pesticide** molecules, for **example**, are attracted to and can bind to negatively charged clay particles.

Absorption – The uptake of **pesticides** into plants and animals. ... Once **absorbed** by plants, **pesticides** may be broken down or they may remain in the plant until tissue decay or harvest.



Containers must be properly rinsed

- Triple rinse containers
- Always add the rinsate to the spray mixture and apply to a labelled site
- Never pour rinsate on the ground or down a drain





Disposal

- Follow label
- Triple rinse containers
- Apply extra mix to labeled site

- READ
- Call BPC about obsolete pesticides

4.0

STORAGE AND DISPOSAL

Proper pesticide storage and disposal are essential to protect against exposure to people and the environment due to leaks and spills, excess product or waste, and vandalism. Do not allow this product to contaminate water, foodstuffs, feed or seed by storage or disposal.

PESTICIDE STORAGE: Store pesticides away from food, pet food, feed, seed, fertilizers, and veterinary supplies. Keep container closed to prevent spills and contamination. See individual container label for additional storage conditions, if any.

PESTICIDE DISPOSAL: To avoid wastes, use all material in the container, including rinsate, by application according to label directions. If wastes cannot be avoided, offer remaining product to a waste disposal facility or pesticide disposal program. Such programs are often run by state or local governments or by industry. All disposal must be in accordance with applicable federal, state and local regulations and procedures.

CONTAINER HANDLING AND DISPOSAL: See base label attached to the container for container handling and disposal instructions and refilling limitations.

Burning or burying pesticide containers is illegal



All Pesticide Applications?

- General, restricted & limited use pesticides
- Powered & non-powered applications

- Granulars, liquids, foggers & aerosols, disinfectants
- **Biological & organic pesticides**
- All application sites crops, animals & buildings
- Indoor & outdoor application sites

If it is applied to control a "pest" and you use it in your <u>business</u>, You Must Keep a Record







What must be recorded? PESTICIDE KEY

PESTICIDE K	EY						
Brand Name	Active Ingredi- ents(s)	Epa Reigistration No.	Restricted Entry Interval and/or Air Concentration Level				
Bonide Malathion	Malathion	4-99	Until Dry				
Bravo Weather-Stik	50534-198-10	505 34-188-10	12 Hours				
Tomcat Quick Kill	Brome thalin	12455-143	NA				
Roundup	Glyphosate	524-475	4 hrs				
Accord Concentrate	Glyphosate	62719-324	4 hrs				
Captan aDWDG	Captan	66222-58	24 Hours				
	,						
			ν.				
COMPLET.		· · ·					

The PESTICIDE KEY needs to be filled in with the Brand Name, Active Ingredients, EPA Registration Numbers, and the Restricted Entry Interval and/or Air Concentration Level.



READ THE LABEL

What must be recorded? CALIBRATION LOG

Date calibrated:	April 30	1
Sprayer brand:	Rears 400	1
Spayer type:	400 Pull	r_
Sprayer model:	400 Port	1_
Nozzle type:	Coram.c.	1
Nozzle spacing: Top		1
Nozzle orientation ¹ :	17 A	
Nozzle condition ² :	121×	1
Boom height ³ : Bottom	N W Z	-
Pressure:	130	
Speed (mph):	23	
Throttle (rpm):	2000	1000
ractor model:	5603	
ractor gear:	82	
alculated volume/acre4:	JU J.	
alibration method:	Berdere	

Do all nozzles match (size and number) and does output of each nozzle vary by less than +

The SPRAYER CALIBRATION LOG was often found to be missing. Applicators reported doing the calibrations but not recording the data in their logbooks.



What must be recorded? APPLICATOR LOG

PES	TICI	DE AI	PPLICATOR LOG	50 Cortla			Applic	ator Na	me(s)			, Applese	ed			5.
Company Name: JP's Apple Farm Mac intosh, Maine License Number (s): PPA - 0000							•••									
Date	Start Time	Finish Time	Address, Town/ Field Location ¹	Size of Treated Area ²	Sensitive Area ³ Yes/No	Site or Crop	Target Pest	Wind Speed & Direction	Weath Temp	Cloud Cover	tions Time Not-	Pesticide(s) and Diluent Applied ⁵	Rate Undilut-	Descrip Mix	lion Mix Ratio	Application Method
5/15/13	4:30 Am	6:30 Am	Orchard 1 Honey Crisp	. Zains	NO	Apples	Seab	4mph NE	59°	Clear	500 Am	Captain SocioD &	10 lbs	130 9016s	6 16 165 901	Airblast
				_								-				
- Acres	or other u itive area	init of mea	is, etc. Use abbreviations if needed asure you normally use, eg. 1000 s sent, a description or map is require	g ft, tree-volume, acre	e-ft., linear	miles, etc.	5 - Use EPA	the pesticion registration	de key at n number	the front and rest	of this	s, more often if c Logbook to reco ntry interval or a T ERASE - cros	rd pesticide b ir concentrati	orand na ion inter	val.	

The PESTICIDE APPLICATOR LOG needs to be filled in. The BPC Inspector uses this information to check that the label's directions were followed. The is also the applicators defense in case of an alleged complaint.



Records

- Application records must be kept on file for *two* years
- Records must be available for inspection upon request

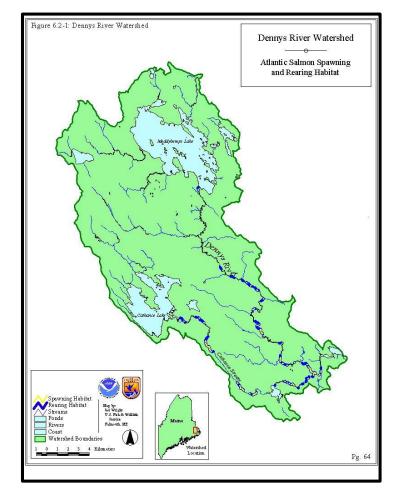


 Commercial applicators are required to send pesticide use reports to the BPC annually



Critical Pesticide Control Area Law

- The Board may restrict or prohibit pesticide use in designated areas
 - Persons may petition the Board
 - Requires medical or ecological proof of need



Post emergency numbers

Emergency Numbers
Police Fire Medical Poison Center
Chemical Emergencies
chemtree – Any Chemical (800) 424-9300 (toll free)
Chevron Chemical Products (415) 233-3737 (collect) *Box asile originating scalable the sport/serral U.S. (Alastes, News) Haven Hool: (202) 405 7618 - Weekington, D.CCollect

State of Maine	BOARD OF PESTICIDES CONTROL					
Maine Department of Agriculture, Conservation and Forestry	28 State House Station					
BOARD OF PESTICIDES CONTROL	Augusta, Maine 04333-0028					
License Number: COA-7928	www.thinkfirstspraylast.org					
JOHN T PIETROSKI	207-287-2731					
DEPT OF ACF-BOARD OF PESTICIDES CONTROL	EMERGENCY PHONE NUMBERS:					
Commercial Operator Categories: 2 EXPIRATION DATE: 12/31/2021	Poison Center National Pesticides Info Center Board of Pesticides Control DEP Spill Response Number	1-800-222-1222 1-800-858-7378 1-207-287-2731 1-800-482-0777				



Enforcement

- What we like to do the least
- Want to work with applicators
- ^{1st} offense maximum fine \$1,500
- 2nd offense maximum fine \$4,000
- Knowing violation \$7,500 and/or 30 days



AUGUSTA — The operator of four of Maine's eight medical marijuana dispensaries was fined \$18,000 on Friday for using pesticides on plants in violation of state law and program rules.

For very serious violations

• The Board can suspend or revoke a license



Accidentally applying pesticides to the wrong property is considered a serious violation

The State of Maine is divided into six districts. Five of the districts are covered by a Pesticide Inspector.

Ray Connors Compliance Manager raymond.g.connors@maine.gov



District 2 – Midcoast Lucien Saucier Lucien.saucier@maine.gov



District 1 – Southwest Alexander Peacock

alexander.peacock@maine.gov





District 5 – Aroostook Keith Brown keith.r.brown@maine.gov



District 4 – Central Maine Marilyn Tourtelotte Marilyn.k.toutelotte@maine.gov



District 3 - Downeast Heidi Nelson heidi.d.nelson@maine.gov

Board of Pesticides Control- Inspectors 2020

SAFETY IS EVERYONES RESPONSIBILITY

Times are changing



Public safety is always of primary importance

Board of Pesticides Control

ALERT: Stay up to date on Maine's COVID-19 Response

DEPARTMENT OF

Agriculture, Conservation and Forestry

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Board of Pesticides Control

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- We are now contacting and scheduling exam applicants who have not yet been scheduled due to the ongoing COVID-19
 emergency.
- · Applicants may register for an exam via paper application only.
- To schedule a private and agricultural basic exams please call the BPC office at 207-287-2731.
- · Please continue to monitor our website regarding exam applications.
- If you have any questions please contact Board staff at <u>pesticides@maine.gov</u>.

Disinfectants and COVID-19

- Maine Registered Disinfectants for Use Against COVID-19 07/24/2020 (Excel 58KB)
 Products on this list include Maine registered disinfectants that meet EPA's criteria for use against SARS-CoV-2, the novel
 coronavirus that causes the disease COVID-19. The list will be updated often. If you have any questions about products
 please contact our office at pesticides@maine.gov.
- <u>EPA accepted pesticides for Coronavirus COVID-19 mitigation</u> (Source: EPA)
 This site provides information on EPA's criteria for determining which pesticides are listed for use against SARS-CoV-2.
- Information on using disinfectants to control the COVID-19 Virus (Source: NPIC)
 Find general guidance on using disinfectants effectively. Also find steps to consider to reduce your risk when using disinfectants.
- <u>Respiratory Protection: Keeping Yourself Safe and Meeting Legal Requirements</u> (Source: NPSEC) This
 infographic contains a helpful decision matrix for determining the need for a respirator during pesticide application. It also
 provides suggestions on which types of respirators will provide equivalent or better protection when a label listed
 respirator is unavailable.
- EPA Releases Temporary Guidance on Respiratory Protection for Agricultural Pesticide Handlers During COVID- 19 (Source: EPA) This temporary guidance outlines approaches to address the unavailability of required respiratory protection and respiratory fit testing that should first be exhausted before considering any alternative options.

The next Board of Pesticides Control Meeting is Scheduled to be Held on July 24, 2020.

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LINKS TO USEFUL SITES

GotPests.org (ID and facts sheets for pests-Maine IPM Council)

University of Maine Cooperative Extension IPM for Maine Homeowners

National Pesticide Information Center

2020 Non-Agricultural Pesticide Notification Registry [PDF] [Excel]

CONTACT US

AUGUSTA: 207-287-2731 FAX: 207-287-5576 TTY Users: call Maine Relay 711 more

email: pesticides@maine.gov

The BPC offices are located on the 3rd floor of the Deering building at 90 Blossom Lane, Augusta

DRIVING DIRECTIONS & MAPS

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www.thinkfirstspraylast