



Chapter 9
What You Need to Know About
Pesticides

Appendix I

Appendix I

Helpful Weights and Measures

American Fluid Measure	
80 drops	1 teaspoon, (tsp.)
3 teaspoons	1 tablespoon, (tbsp.)
2 tablespoons	1 fluid ounce, (fl. oz.)
8 fluid ounces	1 cup, (c.)
2 cups	1 pint, (pt.)
2 pints	1 quart, (qt.)
4 quarts	1 gallon, (gal.)
American Dry Measure	
3 teaspoons	1 tablespoon, (tbsp.)
16 tablespoons	1 cup, (c.)
2 cups	1 pint, (pt.)
2 pints	1 quart, (qt.)

Metric/English Conversions

Length		Area	
1 meter (m)	3.28 feet (ft)	1 square meter (m ²)	10.764 square feet (ft ²)
1 centimeter (cm)	0.3937 inches (in)	1 square centimeter (cm ²)	0.155 square inches (in ²)
1 kilometer (km)	1.609 miles (mi)	1 square meter (m ²)	0.000247 acres
Volume		Mass	
1 cubic meter (cm ³)	35.314 cubic feet (ft ³)	1 kilogram (kg)	2.025 pounds (lb)
1 cubic cm (cm ³)	0.061 cubic in. (in ³)	1 gram (g)	0.035 ounces (oz)
1 liter (l)	1.057 quarts (qt)	Temperature	
1 milliliter (ml)	0.0338 ounces (oz)	1° Celsius (C)	33.8° Fahrenheit (F)

*For an easy, on-line conversion chart, go to:

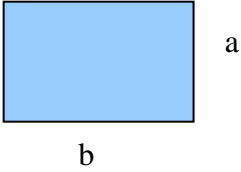
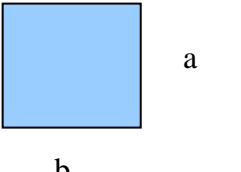
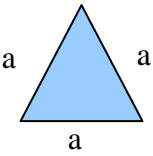
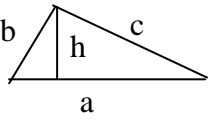
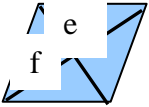
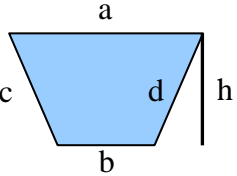
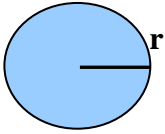
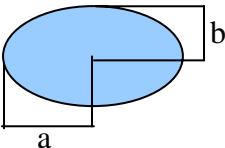
<http://www.unitconversion.org/index.html>

General List of Minimum Risk Pesticides
Active Ingredients Exempt from FIFRA Listing*

*Often used in organic pesticides or home remedies

Castor Oil, (U. S. P. or equivalent)
Cedar Oil
Citric Acid
Citronella and Citronella Oil
Cloves and Clove Oil
Corn Gluten Meal
Corn Oil
Cottonseed Oil
Dried Blood
Eugenol
Garlic and Garlic Oil
Geraniol
Geranium Oil
Lauryl sulfate
Lemongrass Oil
Linseed Oil
Malic Acid
Mint and Mint Oil
Peppermint and Peppermint Oil
2-Phenethyl propionate (2-phenylethyl propionate)
Potassium sorbate
Putrescent Whole Egg Solids
Rosemary and Rosemary Oil
Sesame, (includes ground sesame plant), and Sesame Oil
Sodium chloride, (common salt)
Sodium lauryl sulfate
Soybean Oil
Thyme and Thyme Oil
White Pepper
Zinc Metal Strips, (consisting solely of zinc metal & impurities)

Formulas for Area Measurements

 <p>Rectangle $A = a \times b$</p>	 <p>Square $A = a \times b$</p>
 <p>Equilateral Triangle $A = .433 \times a \times a$</p>	 <p>General Triangle $h = \text{Height}$ $A = (a \times h) / 2$</p>
 <p>Parallelogram, (all sides equal) $A = (e \times f) / 2$</p>	 <p>Trapezoid $A = \{(a + b) / 2\} \times h$</p>
 <p>Circle $r = \text{Radius}$ $A = \pi r^2$ $A = 3.1416 \times r \times r$</p>	 <p>Ellipse $A = \pi \times a \times b$ $A = 3.1416 \times a \times b$</p>

Inches to Feet Conversion

To Use: measure in feet and inches, and use conversion chart to find the decimal equivalent of the inches. For example, a spreader that is 21 inches wide is 1 ft, 9 in wide. In decimal, that would be 1.75 ft.

Inches	Feet
$\frac{1}{4}$ "	0.02'
$\frac{1}{2}$ "	0.04'
$\frac{3}{4}$ "	0.06'
1"	0.08'
$1\frac{1}{4}$ "	0.10'
$1\frac{1}{2}$ "	0.12'
$1\frac{3}{4}$ "	0.15'
2"	0.17'
$2\frac{1}{4}$ "	0.19'
$2\frac{1}{2}$ "	0.21'
$2\frac{3}{4}$ "	0.23'
3"	0.25'
$3\frac{1}{4}$ "	0.27'
$3\frac{1}{2}$ "	0.29'
$3\frac{3}{4}$ "	0.31'
4"	0.33'
$4\frac{1}{4}$ "	0.35'
$4\frac{1}{2}$ "	0.37'
$4\frac{3}{4}$ "	0.40'
5"	0.42'
$5\frac{1}{4}$ "	0.44'
$5\frac{1}{2}$ "	0.46'
$5\frac{3}{4}$ "	0.48'

Inches	Feet
6	0.50'
$6\frac{1}{4}$ "	0.52'
$6\frac{1}{2}$ "	0.54'
$6\frac{3}{4}$ "	0.56'
7	0.58'
$7\frac{1}{4}$ "	0.60'
$7\frac{1}{2}$ "	0.62'
$7\frac{3}{4}$ "	0.65'
8	0.67'
$8\frac{1}{4}$ "	0.69'
$8\frac{1}{2}$ "	0.71'
$8\frac{3}{4}$ "	0.73'
9	0.75'
$9\frac{1}{4}$ "	0.77'
$9\frac{1}{2}$ "	0.79'
$9\frac{3}{4}$ "	0.81'
10	0.83'
$10\frac{1}{4}$ "	0.85'
$10\frac{1}{2}$ "	0.87'
$10\frac{3}{4}$ "	0.90'
11	0.92'
$11\frac{1}{4}$ "	0.94'
$11\frac{1}{2}$ "	0.96'
$11\frac{3}{4}$ "	0.98'

Pesticide Storage Checklist

Safety is the key element in proper pesticide storage. If you answer **no** to any of the statements below, you should correct your storage facility immediately.

Date of Inspection:	Yes	No
General Information		
Clean, neat pesticide storage site	_____	_____
Current, on-site pesticide inventory	_____	_____
Posted emergency phone numbers	_____	_____
Labels on containers readable	_____	_____
Pesticide Containers		
Containers marked with Purchase Date, (use old ones first)	_____	_____
Insecticides, herbicides, and fungicides segregated	_____	_____
Pesticides stored in original containers	_____	_____
Container caps tightly closed	_____	_____
No reused pesticide containers present	_____	_____
Pesticides stored off the floor and low to ground	_____	_____
Dry pesticides stored above liquid pesticides	_____	_____
Food stuffs stored separately from pesticides	_____	_____
Used containers marked and stored for disposal	_____	_____
Rinsed and un-rinsed containers separated	_____	_____
Spills and Disposal		
Storage area free of leaks or spills	_____	_____
Shovel and absorbent materials readily available	_____	_____
Home Spill Kit readily available	_____	_____
Floor drains sealed, or storage area within "dike"	_____	_____
Safety Information		
<i>NO SMOKING</i> signs posted	_____	_____
Safety equipment separated from pesticides	_____	_____
Fire extinguisher in good working order	_____	_____
Storage area locked	_____	_____
Storage area posted <i>DANGER PESTICIDES</i>	_____	_____
Storage area well-lit and well-ventilated	_____	_____

Pesticide Application Record

Contact Name: _____ Address of Application _____

Date	Pest	Product Used Brand Name & Active Ingredient Name	EPA Registration #	Location and Total are of Treated Site	Total Amt. of Pesticide Applied	Results of Application	Comments

Listing of Federally Registered Restricted Use Pesticides*

*Complete listings may vary per state.

Some of these products may be available for purchase by the homeowner in diluted form, in combination with other active ingredients, or in a different, non-restricted, type of formulation. Use caution when using any of these products. This list was provided by the Clemson University Pesticide Program; it is not a complete listing, and is subject to change. Restricted Use Pesticides that are used primarily in the agriculture or other industries were not included. State listings are available for each state.

Active Ingredient	Trade Name	Pesticide Type	Restricted Formulations	General Use
Acrolein	Magnacide H & B, Aqualin	Herbicide	As sole active ingredient	All uses
Aldicarb	Temik	Nematicide, insecticide, miticide	As sole active ingredient and in combination with other actives, all granular formulations	All uses
Aluminum phosphide	Fumex, Tri-Tox, 27 Stoin, Gastoxin, Quik Fume, Detia Gas/Tablet/Pellets, Detia Rotox AT/AP, Fumidtoxin, Phostonxin, Fumicell/Fumi Strip, Magtoxin, Detia Fumex, and others	Fumigant	As sole active ingredient	All uses
Bendiocarb	Turcam, Turcam Plus	Insecticide	Granular and wettable powder	Turf
Bis(tributyltin) oxide	Interlux Micron, Interswift BKA0076, Super Sea Jacket, Hempel's Anti-fouling Combic, Navicote 2000, AF-SeaflowZ-100	Biocide	Solution, ready to use	Antifouling paint for boats
Carbofuran	Furadan	Nematicide, insecticide	All formulations except pellets/tablets	All uses
Chlorophacinone	Rozol Tracking Powder, Rozol Blue Tracking Powder	Rodenticide	Tracking powder, dust, and ready to use formulations 0.2%	Inside buildings
Chloropicrin	Timberfume, Chlor-O-pic, Tri-Con, Brom-O-Gas, Terr-O-Gas, Pic-Boom, Bro-Mean, Pic-Chlor, Dowfume MC-33, and others	Fumigant, fungicide, rodenticide	All formulations greater than 2% and all formulations for rodent control	All uses, (greater than 2% including rodent control)
Coumaphos	CO-RAL	Insecticide	Flowable concentrate	Indoor food and indoor non-food
Cubé Resins other than Rote PM	NUSYN, Noxfish, Rotenone Fish Toxicant, Cube Powder	Insecticide	Emulsifiable concentrate	Small fruits, currants, certain berries
Diazinon	Diazinon, Knox Out NL, diasol, Drexel, others	Insecticide	Granular emulsifiable concentrates, wettable powders	Small fruits, certain berries, currants, grapes
Dichlobenil	Sewerout II, Sanaform, Vaporooter	Herbicide	2,6-dichlorobenzonitrile	Terrestrial

Listing of Federally Registered Restricted Use Pesticides, (con.)				
Active Ingredient	Trade Name	Pesticide Type	Restricted Formulations	General Use
Dicrotophos	Chiles' Go-Better, Mauget Inject-A-Cide B	Insecticide	All liquid formulations 8% or greater	All uses
Diflubenzuron	Dimilin, Micromite	Insecticide	Wettable Powders	All uses
Dioxathion	Cooper-Del-Tox, Delnav	Insecticide, miticide	All concentrate solutions or Emulsifiable concentrates greater than 30%, all solutions 3% and greater for domestic uses	All uses
Disulfoton	Di-Syston, Root-X, Stand-Aid, Rigo Insyst-D	Insecticide	All Emulsifiable concentrates 65% and greater, all emulsifiable concentrates and concentrate solutions 21% and greater with fensulfothion 43%	All uses, seed treatment with non-aqueous solutions of 95% or greater
Emamectin Benzoate	Proclaim	Insecticide, miticide	4-Epimethylamino-4 Deoxykavermectin BLA and B1b Benzoates	Insecticide, miticide
Ethoprop	Mocap, Holdem	Nematocide, insecticide	Emulsifiable concentrates 40% and greater, (aquatic uses); all granular and fertilizer formulations	Aquatic uses (emulsifiable concentrates 40% or greater; All uses (granular and fertilizer formulations)
Fenamiphos	Nemacur	Nematicide, insecticide	Emulsifiable concentrates 35% and greater	All uses
Fenbutatin-oxide	Vendex 50	Miticide	Wettable powder	Grapes
Fenthion	Mosquitocide 700, Baytex	Insecticide	Emulsifiable concentrate	Mosquitocide
Fenvalerate	Asana XL, Fury 1.5	Insecticide	Emulsifiable concentrates, (30%)	Outdoor uses
Methamidophos	Monitor 4	Insecticide	Liquid formulations 40% or greater, dust formulations 2.5% and greater	All uses
Methomyl	Lannate, Methomyl 5G, Lannabait	Insecticide	As sole active ingredient in 1% to 2.5% baits, (except in 1% fly bait), all concentrated solutions, and 90% wettable powder formulations	Ornamental landscapes and turfs
Mevinphos	Phosdrin, Duraphos	Insecticide	Emulsified concentrates, 2% dust	All uses
Niclosamide	Bayluscide	Molluscicide, larvicide	70% wettable powder and greater	All uses
Oxamyl	Vydate	Nematicide, insecticide	Liquid formulations; some granular formulations	All uses
Phorate	Thimet, Rampart, Phorate, Holdem, Milo Bait, others	Insecticide	Liquid formulations 65% and greater	All uses

Listing of Federally Registered Restricted Use Pesticides, (con.)

Active Ingredient	Trade Name	Pesticide Type	Restricted Formulations	General Use
Piperonyl butoxide	Vex, Obilique, Scourge, NUSYN, Ultra TEC, Prentox	Insecticide	Emulsifiable concentrate	Small fruits, certain berries, currants
Pronamide	Kerb	Herbicide	All 50% wettable powders	All uses
Propetamphos	Zoecon	Insecticide	Emulsifiable concentrates 50%	Indoor domestic use
Pyrethrins	Buggone II	Insecticide	Emulsifiable concentrates 50%	No uses listed
Rotenone	Rotenone, Noxfish, NUSYN, Synpren, Prenfish, Chem-fish, Cubé	Fish toxicant	2.5% to 5.0% emulsifiable concentrate, 5.0% - 20% wettable powder	Fish kill-lakes, ponds, streams
Simazine	Simazine, Printrex, Simazat	Herbicide	Emulsifiable concentrate	Berries
Sodium cyanide	M-44 Cyanide, DRC-1339	Rodenticide	All capsules and bait formulations	All uses
Sodium hydroxide	Augus Hot Rod	Herbicide	Ready to use solution	Control tree roots in sewage systems
Sodium methyl dithiocarbamate	Metam Sodium, Metam S.A.U., Vaporooter, Sodcure	Fumigant, herbicide	32.7% anhydrous	Soil fumigant to control soilborne pests to ornamentals
Starlicide	Gull Toxicant, Compound DRC	Bird repellent	98% concentrates	Bird repellent
Strychnine	Strychnine, Pocket Gopher Bait, Gopher Getter, Gopher-Rodent Killer, others	Rodenticide	Dry baits, pellets, and powder formulations, see label for specifics	All uses
Sulfotepp	Dithio Insecticidal Smoke, Plantfume	Insecticide	Sprays and smoke generators	All uses
Terbufos	Counter	Insecticide	Granular formulations 15% or greater	All uses
TFM	Sea Lamprey Larvicide, TFM Bar	Biocide	Impregnated material	Aquatic Pest Control
Tributyltin fluoride	Polyflo, KL-990, Pro-Line 1077	Biocide	Solution, ready to use	Anti-fouling paint for boats
Tributyltin methacrylate	Interlux Micron, Interswift BKA007, Intersmooth Hisol, M&T Polyflo, Amercoat, Biocop, AF-SeafloZ-100, Hempel's XL 48	Biocide	Solution, ready to use	Anti-fouling paint for boats
Tri-isopropranolamine	Toram 101	Herbicide	Emulsifiable concentrate	All uses