

# PESTICIDE FORMULATIONS

Kentucky Pesticide Safety Education Program


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## Using Pesticide Formulations

**Pesticide formulations** are a combination of one or more **active ingredients (a.i.)**, which control pests, and several inert ingredients. Many a.i.s are not soluble in water. Some may be toxic or unsafe to handle. Others may be unstable during storage. The inert ingredients are included in a formulated product to solve these problems. **Some inert ingredients** pose health risks to pesticide handlers or applicators so their characteristics, along with those of the active ingredient, determine the signal word that appears on the product label. For example:

**4L = 4 pound per gallon Liquid**

**50 WP = 50% wettable powder**

**4L = 200 5L = 200 grams/liter 0.47 pounds/gal = soluble liquid**

Pesticide products sold as **concentrates** must be mixed with water, or some other carrier, before being applied. The amount of active ingredient (a.i.) and the kind of formulation may be listed on the product label.

**Concentrated formulations** are very economical when treating large areas but it may be hard to measure amounts needed for small areas. Also, the handling, mixing, need for specialized spray equipment, and clean-up time may make the use of concentrates inconvenient or impractical.

**Ready-to-Use formulations** may be more appropriate for small areas. They contain small amounts of active ingredient (often 1% or less a.i. per unit volume). Some contain petroleum-based solvents; others are water-based. RTU formulations are already diluted and may be sold in containers that serve as applicators. Example RTU formulations include aerosols (A), granules (G), and insect baits (B).

Most pesticide formulations are liquid or dry materials. Some pesticides are available in more than one. Cost is always a consideration but **safety and pest management concerns should come first**. Choose the formulation best suited for the job based on:

- Legal, labeled uses<sup>1</sup>
- Signal words<sup>1</sup>
- Applicator safety<sup>1</sup>
- Environmental safety<sup>1</sup>
- Pest biology<sup>1</sup>
- Site characteristics
- Target (surface to be treated)
- Application equipment

Answering these questions can help with the decision:

- Is the intended use and site listed on the product label?
- Do I have the necessary application equipment?
- Can the formulation be applied according to the label instructions in the particular area?



### Questions:

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# Pesticide Formulations Applicatio Volume 6

**Thomas Griffiths**



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