

Know Atrazine Content When Using Premixed Herbicides

RALEIGH, N.C.— Atrazine and corn growing are two things that for many farmers go together like strawberries and cream or salt and pepper.

But recently there have been increasing concerns about the potential for atrazine to contaminate groundwater, along with continuing worries about carryover damage to rotational crops, especially soybeans.

Tougher restrictions on atrazine use have been adopted by the U.S. EPA and by several states. University recommendations have been modified to reflect new attitudes about atrazine. As a result, corn growers are changing the way they use the product.

Despite the trend, however, more farmers than ever are using atrazine, but using less of it. They are applying lower rates per acre in carefully-managed herbicide programs. Many are switching to premixed herbicides containing atrazine, instead of "straight" atrazine applied alone or mixed with another product.

The benefits of a premix are several. Handling and mixing are more convenient, since the user has only one product to deal with. Storage space often is reduced. And the economics are attractive, since manufacturers usually price premixed products the same or slightly higher than buying components separately.

With premixes, however, it can sometimes be difficult to determine exactly how much atrazine you're applying. With one exception (BUCTRIL® + atrazine) product names don't even mention atrazine. Therefore, it's important to know how to decipher atrazine content from the product label specifications.

The tables here list actual atrazine applied in pounds of active ingredient per acre for major preemergence and postemergence premixes that contain atrazine. For products or rates not listed here, you can calculate the amount of atrazine applied by using this procedure. Remember, you want to know the pounds (or fractions of a

pound) of active ingredient of atrazine applied per acre.

Determining Atrazine Content: Liquid Products

Refer to the label. Listed just below the product name are the ingredients and percentage of each herbicide. Also noted is the amount of atrazine, given in pounds per gallon.

Next, determine your application rate in gallons per acre. Since most herbicide recommendations are given in quarts or pints, you will have to divide the number of pints or quarts by the number of that unit (eight or four) in a gallon.

The next step is simply to multiply the atrazine content by the application rate (in gallons or parts of a gallon) to find how much actual atrazine you will be applying per acre.

Example 1: Product contains 2.1 pounds of atrazine per gallon. You plan to apply three pints per acre.

Application rate: 3 (pints) divided by 8 (pints per gallon) = .375 gallons/acre

Atrazine content: 0.375×2.1 (pounds atrazine/gallon) = 0.78 pound per acre

In this example, using a product containing 2.1 pounds of atrazine per gallon at a three pint rate would result in applying 0.78 pound of atrazine per acre.

Determining Atrazine Content: Wettable Powder or Dry-Flowable Products

With wettable powder and dry flowable herbicides, you first must determine the amount of atrazine by weight of the product. This information is found on the product label, just below the name of

the product. Then determine the application rate you'll be using in pounds per acre.

To find the amount of atrazine you'll be applying per acre, simply multiply the pounds per acre by the percentage of atrazine in the product. Be sure to convert the percentage to a decimal.

Example 2: Product contains 21 percent atrazine. You are applying 2.2 pounds per acre.

0.21 (percent atrazine content) \times 2.2 (application rate) = 0.46 pound atrazine.

In this example, the 2.2 pound rate would result in .46 pound of atrazine being applied per acre.

Company Plants 100 Million Seedlings

SPRING GROVE (York Co.) — For decades, The Glatfelter Pulp Wood Company, the forestry subsidiary of the P. H. Glatfelter Company, has planted tree seedlings on company-owned property in Pennsylvania, Maryland, Delaware, and Virginia as part of a sound forestry management program.

At the same time, the company has encouraged many private landowners in those same states to practice good forestry by providing technical assistance and offering free tree seedlings through the company's matching seedling program.

Through the company's reforestation efforts, more than 120,000 acres of timber have been planted in the four-state area. In addition to producing the raw material for important wood products, these lands have served as recreational sites, wildlife habitats, and protection for watershed area.

This spring, the company will celebrate the planting of 100 million seedlings over many years on company and privately-owned lands. The 100 millionth seedling will be planted in one of the four states in which the company operates.

Table 1. Atrazine content of postemergence corn herbicides.

Product	Low	Average	High
	Rate/atrazine	Rate/atrazine	Rate/atrazine
BUCTRIL® + atrazine	1.5 pt/.375	2.0 pt/.50	3.0 pt/.75
LADDOK®	2.0 pt/.42*	2.5 pt/.52*	3.0 pt/.63*
MARKSMAN®	2.0 pt/.525	3.5 pt/.92	---

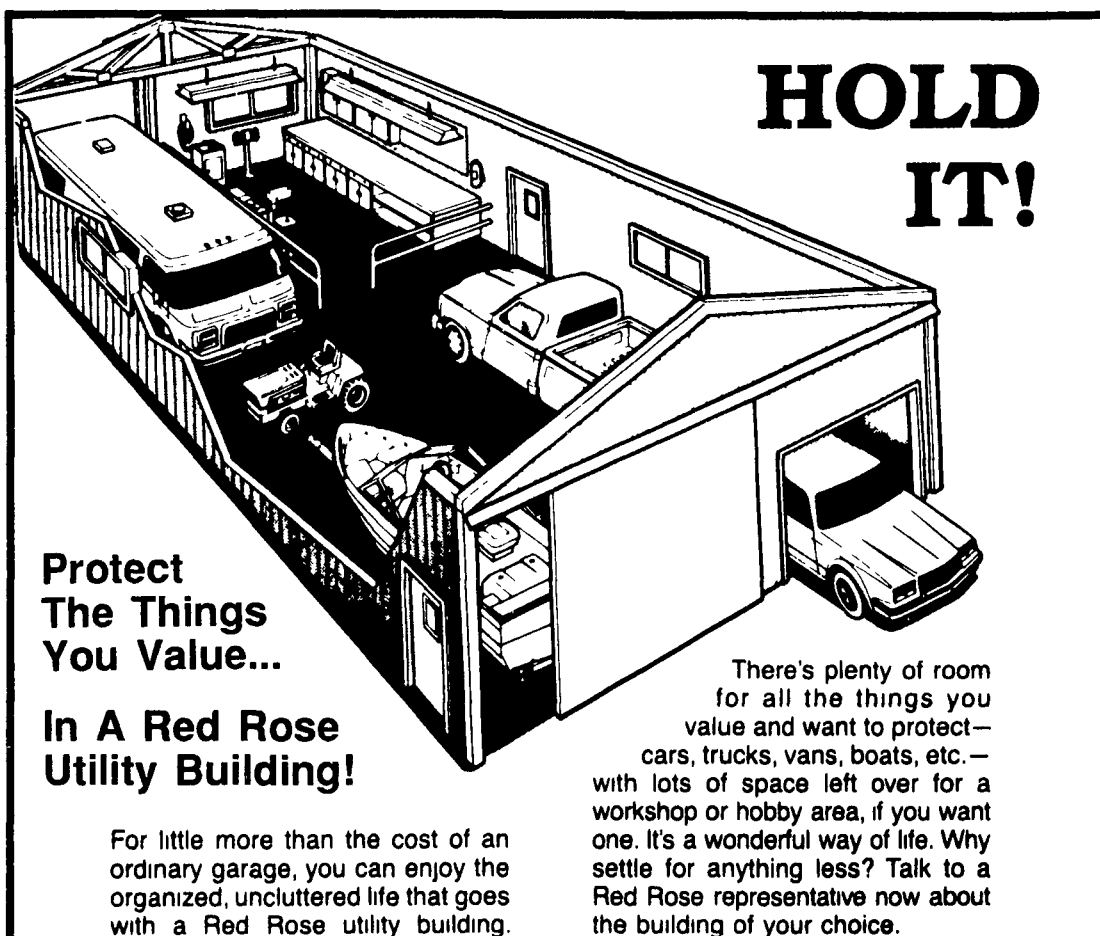
Bold indicates lowest atrazine content in rate category. Product rates listed in pints of formulated product per acre. Atrazine listed as pounds active ingredient per acre. * Requires use of crop oil concentrate or UAN.

Table 2. Atrazine content of pre-emergence corn herbicides.

Product	Low	Medium	High
	Rate/atrazine	Rate/atrazine	Rate/atrazine
BICEP®	1.5 qt/.93	2.4 qt/1.48	3.0 qt/1.86
BULLET®	2.5 qt/.95	3.75 qt/1.41	4.5 qt/1.70
EXTRAZINE® II DF	1.4 lb/.21	3.6 lb/.54	5.8 lb/1.24
EXTRAZINE® II L	1.25 qt/.31	3.25 qt/.80	5.25 qt/1.31
LARIAT®	2.5 qt/.95	3.75 qt/1.41	4.5 qt/1.70
PROZINE®	2.0 lb/.70	3.0 lb/1.05	4.25 lb/1.5
SUTAZINE®	5.25 pt/.78	7.0 pt/1.05	10.5 pt/1.58

Bold indicates lowest atrazine content in rate category. Product rates listed in amount of formulated product per acre. Atrazine listed as pounds active ingredient per acre.

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