Class activity

USING THE ATTACHED PESTICIDE LABEL ANSWER THE FOLLOWING QUESTIONS: **PLEASE DO NOT WRITE ON THE LABEL**

FOR QUESTIONS 71- 78, PLEASE use Malathion 57 EC LABEL

71. Malathion 57 EC is a (n) \_\_\_\_\_\_\_\_\_\_\_\_\_\_.

a. insecticide c. miticide

b. fungicide d. herbicide

72. What is the signal word for Malathion 57 EC?

Warning

73. What is the active ingredient for Malathion 57 EC?

Malathion

74. How should Malathion 57 EC be stored?

This product be stored in original unopened container in a secure dry place.

75. What is the recommended safety clothing (PPE) for Malathion 57 EC?

Protestive eyewear (goggles, face shield, safety glasses)

Long-sleeved shirt and long pants

Chemical resistant gloves

Shoes plus socks

76. True or False: Malathion 57 EC can be used in irrigation systems.

True

77. What is the dosage (mix) of Malathion 57 EC for eggplant? (Select a pest and its dosage.)

Aphids: 1 – 1.5 Pt / acre

Lace bugs: 2.5 Pt / acre

78. Malathion 57 EC is hazardous to?

Toxic to Aquatic organisms, including fish and invertebrates

**Math-Show You’re Work**

**ALFALFA**

The Instruction is based on the following: Broadcast Application Rate

|  |  |  |
| --- | --- | --- |
| Soil Texture | Balan DF (pounds/acre) | Lbs.(pounds) Active Ingredient (AI)/Acre |
| Course | 3.0 | 1.2 |
| Medium | 3.0 | 1.2 |
| Fine | 3.5 | 1.5 |

**LETTUCE**

The Instruction is based on the following: Broadcast Application Rate

|  |  |  |
| --- | --- | --- |
| Soil Texture | Balan DF (pounds/acre) | Lbs.(pounds) Active Ingredient (AI)/Acre |
| Course | 4.0 | 1.2 |
| Medium | 4.0 | 1.2 |
| Fine | 4.5 | 1.5 |

Note: The above Application rates for Alfalfa and Lettuce are only for this exam and not on actual label

1. How many pounds of Balan DF do you need to cover 10 acres on **a course soil** if you are growing Alfalfa? (2 points)

|  |  |  |
| --- | --- | --- |
| Soil Texture | Balan DF (pounds/acre) | Lbs.(pounds) Active Ingredient (AI)/Acre |
| Course | 3.0 | 1.2 |

**Apply 3 pounds of Balan DF/acre 3 x 10 = 30 lbs of Balan DF**

**Apply 30 pounds of Balan DF for 10 acres**

1. How many pounds of Balan DF’s Active Ingredient is there for 10 acres of course soil using the application rate provided for Alfalfa? Show your work please. (2 points)

1.2 AI x 10 acres = 12 pounds of Balan DF AI

1. How many pounds of Balan DF’s do you need to cover 5 acres on a Medium Soil for Lettuce? (2 points)

|  |  |  |
| --- | --- | --- |
| Soil Texture | Balan DF (pounds/acre) | Lbs.(pounds) Active Ingredient (AI)/Acre |
| Course | 4.0 | 1.2 |
| Medium | 4.0 | 1.2 |

**Apply 4 pounds of Balan/acre 4 x 5 = 20 lbs of Balan DF**

**Apply 20 pounds of Balan DF for 5 acres**

1. How many pounds of Balan DF’s Active Ingredients is there for the 5 acres of Medium Soil that is being used here for Lettuce? Show your work please. (2 points)

1.2 AI x 5 acres = 6 pounds of Balan DF AI

**Questions number 5 a, b & care for general math calculations:**

1. You are asked to apply a pesticide in a field that is 100 feet wide by 200 feet long.
2. What is the total square footage for this field? (2pts.)

100 x 200 = 20,000 sqft

1. If an acre is 43,560 square feet how many acres are there for the dimension in question **a**? (2pts.)

20,000 ÷ 43,560 = 0.459 acres

1. If the direction on the label says to use 2 quarts of a pesticide per acre, how many quarts of a pesticide can you apply for the size of this field, from question **b**? (2pts.)

2 x 0.459 = 0.918 quarts of pesticide