

[432-525]

TECHNICAL BULLETIN

TB-7315

FORMULATION GUIDE

Date Feb. 22, 1974

PRODUCT - Powdered Cube Root

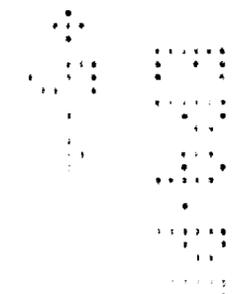
COMMERCIAL APPLICATION - Formulation of pet products, garden dusts and fish control products.

CHEMICAL & PHYSICAL CHARACTERISTICS

Rotenone content -- approximately 5% to 8%

Color -- tan

Particle size -- 80 mesh



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All amounts of Powdered Cube Root to make the end-use products listed below are given on the basis of 5% rotenone content. In order to determine the amount of Powdered Cube Root (based on actual assay) to use, the following formula should be used:

Example: For a flea powder, mix 20 pounds of Powdered Cube Root (5% basis) with 80 pounds of diluent. The root assays 7% rotenone. How much 7% root should be used?

$$\frac{\text{Lbs. of 5\% root used} \times 5\%}{7\%} = \text{lbs. of 7\% root}$$

$$\frac{20 \times 5}{7} = 14.3 \text{ lbs. of 7\% root}$$

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This formula can be used for each of the products. The amount of diluent used should be increased accordingly to keep the batch size equal to 100 lbs. (e. g., in above example, 14.3 lbs. of 7% root would be added to 85.70 lbs. of diluent).

A. Fish Control

Use 1.36 pounds of Powdered Cube Root (basis 5% rotenone) per acre foot of water. This material should be mixed with one to three gallons of water and applied to each acre foot. Powdered Cube Root is toxic to most species of fish at a concentration of 0.5 parts per million (0.025 ppm rotenone).

B. Flea Powder

Mix 20 pounds of Powdered Cube Root (5% basis) with 80 pounds of pyrophillite or talc. This will yield a product containing 1.0% rotenone.

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C. Garden Dust

Mix 20 pounds of Powdered Cube Root (5% basis) with 25 pounds of dusting sulfur and 55 pounds of pyrophyllite or talc. This will yield a product containing 1.0% rotenone.

D. Garden Dust

Mix 10 pounds of Powdered Cube Root (5% basis) with 5 pounds of Pyrethrum-Piperonyl Butoxide 0.6-6.0% dust and 85 pounds of pyrophyllite or talc. This will yield a product containing 0.50% rotenone, 0.03% pyrethrins, and 0.30% piperonyl butoxide.

