

RED DELICIOUS APPLE VARIETY

General Information

ecoFOG-170 DPA is recommended for reducing scald damage to apples while in storage.

ecoFOG-170 DPA is a special liquid form of diphenylamine intended for use with a thermal electrofogger to form a fine fog.

Application Restrictions

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. Consult Agricultural Experiment Station or Extension Service pomology specialists for current recommended DPA use-solution concentrations for local apple varieties.

Preparation for Fogging

- Treat only dry fruit as received from the field.
- Apply to fruit within 15 days after harvesting, prior to placing in storage.
- In case of prolonged storage (more than 4 months) or particularly high danger of scald due to climatological conditions, a second treatment is advisable between the second and third months of storage. This second treatment must be applied at a rate of between 50% and 100% of the initial dosage, depending on the importance of the danger and the length of further storage. A second treatment of 100% of the first dose is recommended for any additional storage of 3 months or longer.
- Before treatment, protect fruit in bins at the top of each stack with plastic liners, cardboard or Kraft paper sheets. Also protect fruit directly in front of the fogging equipment with liners or sheets from top to bottom.
- When treating rooms that are less than 75% full, calculate the dosage of ecoFOG-170 DPA by adding a tonnage value of 20% of the empty volume to the real tonnage of the fruit.

Electrofogger Operation

- Place the Electrofog machine horizontally outside the treatment room at a height of about 3 feet from the floor. Cover the door or window to the treatment room with a plastic sheet and insert the fogging pipe through a hole in the plastic. Place a bucket under the nozzle to catch any drops. Seal the opening around the nozzle.
- Set the Electrofog machine resistance temperature between 500° to 600°C.
- Insert input pipe into product container and start pump. Stop pump when product reaches the pump body.
- Start fan and resistance, and start pump again when fog exit temperature reaches 180°C. Adjust pump as necessary during operation to maintain 180°C.

Application Procedures

- Avoid breathing the fog.
- Turn off room cooling systems and humidifiers 12 hours prior to and during treatment.
- Turn off room circulation fans immediately prior to and during treatment.
- Allow the fog to stay overnight or until the fog has totally disappeared (about 5 hours post-treatment) before restarting fans and cooling systems.
- DO NOT rinse apples after treatment.
- DO NOT apply to fruit treated with Diphenylamine prior to harvest.
- DO NOT use treated apples for pomace or livestock feed as illegal residues may occur in meat or milk.
- DO NOT wrap apples in Diphenylamine-treated paper.
- Fruit must have shipping carton marked: "Treated with Diphenylamine to retard spoilage."

Method

[Fogging](#)

Rates

[field_rates 0](#)

[field_rates 1](#)

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Timings

[Post-harvest](#)