Postharvest Treatment of Apples by Thermal Fogging To Control Scald and CO2 Injury

**eFOG®-500 DPA**

**Postharvest Diphenylamine**

The use of diphenylamine is recommended for reducing scald and CO2 injury to apples while in storage. eFOG®-500 DPA is a special liquid form of diphenylamine intended for use with a thermal electrofogger to form a fine fog. **ACTIVE INGREDIENT:** 50.0% Diphenylamine

**RECOMMENDED APPLICATIONS**

- Postharvest of apples (including U. S. and Canada)
- Export of apples from Canada to U.S.
- Export of apples from the U.S. to Canada

**ACTIVE INGREDIENT:**

**Diphenylamine**

**OTHER INGREDIENTS**

Diphenylamine

**TOTAL:**

0.56 fl oz (16.6 mL)

**WARNINGS**

- 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 Stations or Extension Service personnel for current recommended DPA use-concentration recommendations for specific food crops.

**PRECAUTIONARY STATEMENTS  Hazards to Humans and Domestic Animals**

**HAZARDS TO HUMANS AND DOMESTIC ANIMALS**

- Harmful if swallowed or if absorbed through skin. Causes moderate eye irritation.

**FIRST AID**

Dishwashing detergent, soap, or other non-ionic surfactants that have been fogged or heavily contaminated with the product's concentrate. Do not reuse them. Follow manufacturer's instructions for cleaning/handling PPE. If no such instructions for washables, use two procedures.

Chemical resistant gloves

Red Delicious

Granny Smith

**OTHER INGREDIENTS**

- Long-sleeved shirt and long pants
- Shoes plus socks
- Shaker irrigation pipe

**POSTHARVEST DIPHENYLAMINE FOG**

**Trade Name:**

**Manufactured By:**

**Package Size:** 1.3 gal (5 L)

**Product Description:**

- Liquid

**Environmental Hazards:**

- Flammable liquid, n. o. s. (contains plastic resin, butyl rubber, rubber, nitrile rubber, neoprene rubber, polyvinyl chloride (PVC), water, waxed paper, soap and water after handling and before eating, drinking, chewing gum, using tobacco or smoking without first thoroughly and put on clean clothing.

**StORAGE & DISPOSAL**

Do not contaminate water, food, or feed by storage or disposal. DISPOSE OF CONTAINER AND ITS CONTENTS IN AN ENVIRONMENTALLY ACCEPTABLE MANNER. Avoid storage above 40°F (4°C). Avoid spillage onto any other material and undesirable or in it in approved disposal area.

**RESTRICTED USE**

- Wheelchair, ramps, stairs or other apparatus that can be easily transported

**ENVIRONMENTAL HAZARDS**

The product is toxic to fish and aquatic invertebrates. Do not contaminate water by clearing of equipment or disposing of equipment wash or rinse. Remove all residues from equipment wash or rinse. Do not discharge effluent containing this product to lakes, streams, ponds, estuaries, or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has not permitted for the period of time prescribed for the effluent. Do not discharge effluent containing this product to waste systems without previously notifying the local sewage treatment plant authority for guidance. Contact your State Water Board or Regional Office of the EPA.

**PHYSICAL OR CHEMICAL HAZARDS**

**Compatibles:**

- Do not use or store in the same warehouse with any incompatible product

**APPLICATION PROCEDURES**

- In case of pronghorn storage (more than 4 months) or particularly high danger of scald due to climatic conditions, a second treatment is advisable at the second and third months after harvesting. 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 75% of the first dose is recommended for any additional storage of 3 months or longer.

**Preparation for Fumigating: Do not apply only those that have been fumigated or heavy contamination with the product's concentrate.**

**Environmental Protection (PE) Emissions:**

- Do not apply the product in any 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 Stations or Extension Service personnel for current recommended DPA use-concentration recommendations for specific food crops.

**Treat with Diphenylamine to retard spoilage.**

**Application Rate**

**Application Rate per ft Ton**

<table>
<thead>
<tr>
<th>Apple Variety</th>
<th>Red Delicious</th>
<th>Yellow Delicious</th>
<th>Golden Delicious</th>
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<tbody>
<tr>
<td>Granny Smith</td>
<td>0.86 fl oz (24.5 mL)</td>
<td>0.77 fl oz (22.8 mL)</td>
<td>0.24 oz - 0.39 oz (7 - 11.8 mL)</td>
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</tbody>
</table>

**HOTLINE NUMBER**

Medical Emergency and Transporation Emergency Phone Number 888-271-4649 (PROSAR)

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