



Raynox® Apple Sunburn Protectant is designed to protect apples from sunburn browning. Under comparable environmental conditions, apple varieties vary in susceptibility to sunburn browning. For example, Cameo apples are highly susceptible to sunburn while Pink Lady apples are very tolerant. Other varieties, including Golden Delicious, Fuji, Granny Smith, Gala, Jonagold, Red Delicious and Braeburn, are intermediate in susceptibility.

PRINCIPAL INGREDIENTS: Water, carnauba wax, organically modified clay, emulsifiers.

List No. 10171

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**KEEP OUT OF REACH OF CHILDREN
CAUTION**

This product is a mild irritant. Eye contact will cause minor irritation. Individuals sensitive to alkaline materials may develop dermatitis upon prolonged or repeated contact with product concentrate. If dust/mist residuals are present at or above the TLV, respiratory protection must be worn. Wear additional protective clothing as necessary to minimize contact with product.

1.0

FIRST AID	
If in eyes	Flush with large amounts of water, lifting upper and lower lids occasionally. Get medical attention if irritation persists.
If on skin	Wash exposed areas thoroughly with soap and water. Remove contaminated clothing and laundry before reuse. If skin feels slippery, continue washing until slick feeling is gone. Contact a physician if irritation persists.
If swallowed	Give large quantities of water. DO NOT induce vomiting. If vomiting occurs administer additional fluids. Contact a physician for further directions. Never give anything by mouth to an unconscious person.
If inhaled	Remove individual to fresh air. If breathing is difficult, give oxygen. Contact a physician if irritation persists.
HOT LINE NUMBER	
CALL 800-892-0099 (24 HOURS) FOR EMERGENCY INFORMATION.	

PRODUCT MAY SETTLE DURING EXTENDED STORAGE; AGITATE OR MIX THOROUGHLY BEFORE USE. DO NOT STORE AT TEMPERATURES BELOW 45°F OR IN DIRECT SUNLIGHT.

2.0

RECOMMENDATIONS FOR USE

TANK MIXES: DO NOT mix *Raynox* Apple Sunburn Protectant with fertilizers, pesticides or other agricultural chemicals.

Mixing:

1. Fill clean spray tank with **ALL REQUIRED DILUTION WATER**.
2. ALWAYS add sufficient *Raynox* Water Softener according to its label directions to treat the total required dilution water (Referred to as treated water). Mix thoroughly before adding *Raynox*. NOTE: You must know the level of hardness of your spray water supply. If your water hardness is over 180 ppm, contact your Valent Technical Representative to determine the proper amount of water softener to use. Insufficient or improper use of water softener can result in product degradation and may adversely affect product performance and fruit finish.
3. Continue mixing contents of tank as you slowly add **2.5 gallons of *Raynox*** to treated water for each acre. You may dilute **2.5 gallons of *Raynox* in 47.5 gal** treated water (1:20 ratio) or **2.5 gallons of *Raynox* in up to 97.5 gal** treated water (1:40 ratio) depending on the desired spray volume to be applied per acre with your sprayer (see details below).

APPLICATIONS: Ground Application ONLY: Apply 50 to 100 gal/acre (gpa) finished spray by airblast or boom sprayer to the trees. *Raynox* can be applied at either 100 gpa to both sides of the rows, or at 50 gpa to only the side exposed to afternoon sun. Spraying at 50 gpa on only the side exposed to afternoon sun will provide better sunburn protection. Regardless of the spray volume used (50 gpa or 100 gpa), be sure to apply **2.5 gallons of *Raynox*** per acre of trees. If your sprayer is calibrated to deliver 100 gpa when you spray both sides of each row, dilute **2.5 gal of *Raynox*** in 97.5 gal treated water.

To spray only the side of row exposed to afternoon sun, use the same sprayer calibration, but dilute **2.5 gal of Raynox in 47.5 gal** treated water. Shut off half the nozzles on the sprayer, and apply 50 gal of spray volume (containing **2.5 gals of Raynox**) on the side of row exposed to afternoon sun. For best coverage, ground speed of sprayer should not exceed 2 MPH. Air temperature during application should not exceed 85°F.

Caution: RAYNOX IS NOT RECOMMENDED FOR AERIAL APPLICATIONS. For aerial application use RAYNOX AIR.

When to apply: Apple fruit surface area expands very rapidly between 7 and 9 weeks after full bloom (WAFB). Most effective sunburn protection requires the first application at 7 WAFB with a second application 7 to 10 days later. The third application should be made 3 weeks later (i.e. 11 to 12 WAFB), and a fourth application should be applied 4 weeks later (i.e. 15 to 16 WAFB) on all but a few early maturing cultivars (e.g. Gala). Apples are most vulnerable to sunburn on clear, calm days with air temperatures that are generally above 85°F and with low humidity.

Evaporative Cooling/Overhead irrigation: *Raynox* dries in 1 hour in most orchards. Use the same rates and timing of applications as described above. However, due to variability in humidity, canopy, and other environmental conditions, fruit treated with *Raynox* should be checked for dryness before making any additional spray applications or turning on evaporative cooling or irrigation systems.

CLEAN-UP: Clean sprayer tank and nozzles immediately after use by adding clean water to the spray tank and spraying the water through the nozzles. If any product has dried on the sprayer, it may be necessary to clean with hot water and detergent.

REMOVAL OF RAYNOX RESIDUES FROM FRUIT: Apple packing-line bed brushes may sufficiently remove *Raynox* residues from fruit. However, use of a mild detergent on the brush beds will aid in removing *Raynox* residues.

3.0 STORAGE AND HANDLING

STORAGE: Store in a cool, dry place between 45°F and 90°F, and away from direct sunlight. Keep out of reach of children and livestock.

SPILLS: Only trained personnel equipped with proper protective gear should be permitted in the area. Stop spill at source. Reclaim material if possible for reuse. Containerize contaminated material for disposal. After all visible traces have been removed, flush area thoroughly with water.

PRODUCT & WASTE DISPOSAL: Dispose of all waste in accordance with local, state and federal regulations.

4.0 WARRANTY AND DISCLAIMER STATEMENT

To the extent consistent with applicable law, seller makes no warranty, express or implied, of merchantability, fitness or otherwise concerning the use of this product other than as indicated on the label. To the extent consistent with applicable law, user assumes all risks of use, storage or handling not in strict accordance with accompanying directions.

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Always read and follow label instructions.

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