



Raynox Plus® Sunburn Protectant is designed to protect fruit from sunburn browning. Under comparable environmental conditions, apple varieties vary in susceptibility to sunburn browning. In apples, 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. 06115

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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 launder 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.
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

FOR APPLES:

TANK MIXES: Data concerning the compatibility of *Raynox Plus* with other agricultural compounds are not available. Tank-mixing or use of *Raynox Plus* with any other product, including pesticides, foliar nutrients, water conditioners, and adjuvants shall be at the exclusive risk of the user, applicator and/or application advisor. DO NOT USE *Raynox Water Softener* with *Raynox Plus*.

EVAPORATIVE COOLING/OVERHEAD IRRIGATION: *Raynox Plus* should NOT be used with evaporative cooling or overhead irrigation until further testing is completed to establish its rainfastness.

Mixing:

1. Fill clean spray tank with ALL REQUIRED DILUTION WATER.
2. Mix contents of tank as you slowly add 2.5 gallons of *Raynox Plus* to water for each acre. You may dilute 2.5 gallons of *Raynox Plus* in 47.5 gal water (1:20 ratio) or 2.5 gallons of *Raynox Plus* in up to 97.5 gal water (1:40 ratio) depending on the desired spray volume to be applied per acre with your sprayer (see details below).

APPLICATIONS: Ground Application: Apply 50 to 100 gal/acre (gpa) finished spray by airblast or boom sprayer to the trees. *Raynox Plus* 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 Plus* 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 Plus* in 97.5 gal water. To spray only the side of row exposed to afternoon sun, use the same sprayer calibration, but dilute 2.5 gal of *Raynox Plus* in 47.5 gal water.

Shut off half the nozzles on the sprayer, and apply 50 gal of spray volume (containing 2.5 gals of *Raynox Plus*) 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.

Aerial Application (Helicopter only): When applying *Raynox Plus* by helicopter, be sure proper application techniques are used to provide adequate coverage for optimum sunburn suppression. Apply *Raynox Plus* with well calibrated equipment which provides a uniform spray pattern for thorough coverage. A minimum of 17.5 gallons of diluted spray per acre is recommended for optimum performance. Failure to obtain adequate coverage on the fruit reduces the effectiveness of the product. Regardless of spray volume used, be sure to apply a minimum of 2.5 gallons *Raynox Plus* per acre of trees. Do not apply under windy and/or hot conditions. High speed winds induce drift and also disrupt spray patterns causing inconsistent coverage. High temperatures and dry conditions induce droplet evaporation and may induce marking of fruit from aerial application. Aerial applications when air temperature at the time of application is above 85°F or when maximum daily temperatures are expected to exceed 100°F are not recommended. Early morning applications, when temperature and wind speed are the lowest, are highly recommended. For more information regarding aerial helicopter applications of *Raynox Plus*, consult your Valent representative.

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.

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 Plus* residues from fruit. However, use of a mild detergent on the brush beds will aid in removing *Raynox Plus* 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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