Florel® Brand Growth Regulator

- Prevents Nuisance Fruit on Ornamental Trees and Shrubs
- Removes Mistletoe from Ornamental Conifers and Decidous Trees

ACTIVE INGREDIENT:

Ethephon, [(2-chloroethyl) phosphonic acid]*	3.9%
OTHER INGREDIENTS:	96.1%
TOTAL	100.0%

* This product contains 0.33 lbs. ethephon per gallon.

EPA Reg. No. 54705-8 EPA Est. No. 48498-CA-1

NET CONTENTS: 1 Pint, 1 Quart, 1 Gallon

Manufactured for:
LAWN AND GARDEN PRODUCTS, INC.
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FLOREL is a registered trademark of Bayer Aktiengesellschaft.

KEEP OUT OF REACH OF CHILDREN
CAUTION

FIRST AID

IF IN EYES:	• Hold eye open and rinse slowly and gently with water for 15-20 minutes. • Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. • Call a poison control center or doctor for treatment advice.
IF ON SKIN OR CLOTHING:	• Take off contaminated clothing. • Rinse skin immediately with plenty of water for 15-20 minutes. • Call a poison control center or doctor for treatment advice.

HOT LINE NUMBER

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact the National Pesticide Information Center at 1-800-858-7378 for emergency medical treatment information.

NOTE TO PHYSICIAN

Treat symptomatically. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred. No specific antidote is available. Probable mucosal damage may contraindicate the use of gastric lavage.

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION: Harmful if absorbed through skin. Causes moderate eye irritation. Avoid contact with skin, eyes or clothing. Wear long-sleeved shirt and long pants, chemical resistant gloves (such as Barrier Laminate, Butyl Rubber ≥ 14 mils, Nitrile Rubber ≥ 14 mils, Neoprene Rubber ≥ 14 mils, Natural Rubber ≥ 14 mils; (includes natural rubber blends and laminates), Polyethelene, Polyvinyl Chloride (PVC) ≥14 mils, or Viton ≥ 14 mils) and shoes plus socks. Wash thoroughly with soap and water after handling. Wash clothing separately from other laundry. DO NOT allow people (other than applicator) or pets on treatment area during application. DO NOT allow people or pets to touch treated plants until sprays have dried.

ENVIRONMENTAL HAZARDS

Do not apply directly to water. Do not contaminate water when disposing of equipment washwaters or rinsate.

Avoid spray drift to nearby plants as this product may cause temporary modifications in plant growth.

Prolonged exposure to spray deposits can damage acrylic plastics, certain paints, and metals. Remove automobiles and other vehicles from the treatment area prior to application to prevent spray deposits from falling on vehicles and potentially damaging finishes. Rinse acrylic plastic materials and painted surfaces exposed to inadvertent spray deposits using soap and water within an hour after exposure.

NON-TARGET ORGANISM ADVISORY STATEMENT: This product is toxic to plants and may adversely impact the forage and habitat of non-target organisms, including pollinators, in areas adjacent to the treated site. Protect the forage and habitat of non-target organisms by following label directions intended to minimize spray drift.

GENERAL INFORMATION

Apply FLOREL BRAND GROWTH REGULATOR spray solution within 24 hours after mixing. DO NOT save unused diluted spray solutions as they will not be as effective as fresh solutions.

For ground application only.

UNDESIRABLE FRUIT ELIMINATION

A foliar spray of FLOREL BRAND GROWTH REGULATOR will reduce or eliminate undesirable fruit development on many ornamental trees and shrubs such as: Apple, Carob, Crabapple, Elm, Flowering pear, Flowering plum, Horsechestnut (Buckeye), Oak, Olive, Sour Orange, Sweetgum, Sycamore and others.

MISTLETOE SHOOT REMOVAL

A foliar spray of FLOREL BRAND GROWTH REGULATOR will cause the abscission of dwarf mistletoe shoots in ornamental conifers and leafy mistletoe shoots in ornamental deciduous trees.

DIRECTIONS FOR USE

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling. Do not apply this product in a way that will contact workers or other persons, either directly or through drift.

For use only on ornamental trees and shrubs in areas such as Ornamental Gardens, Residential Grounds, Industrial/Institutional Grounds, or Private Grounds.

Read entire label before using this product.

For ground application only.

MANDATORY SPRAY DRIFT REQUIREMENTS

Boom-less Ground Applications:

- Setting nozzles at the lowest effective height will help to reduce the potential for spray drift.

SPRAY DRIFT ADVISORIES

THE APPLICATOR IS RESPONSIBLE FOR AVOIDING OFF-SITE SPRAY DRIFT. BE AWARE OF NEARBY NON-TARGET SITES AND ENVIRONMENTAL CONDITIONS.

IMPORTANCE OF DROPLET SIZE

An effective way to reduce spray drift is to apply large droplets. Use the largest droplets that provide target pest control. While applying larger droplets will reduce spray drift, the potential for drift will be greater if applications are made improperly or under unfavorable environmental conditions.

TEMPERATURE AND HUMIDITY

When making applications in hot and dry conditions, use larger droplets to reduce effects of evaporation.

TEMPERATURE INVERSIONS

Drift potential is high during a temperature inversion. Temperature inversions are characterized by increasing temperature with altitude and are common on nights with limited cloud cover and light to no wind. The presence of an inversion can be indicated by ground fog or by the movement of smoke from a ground source or an aircraft smoke generator. Smoke that layers and moves laterally in a concentrated cloud (under low wind conditions) indicates an inversion, while smoke that moves upward and rapidly dissipates indicates good vertical air mixing. Avoid applications during temperature inversions.

WIND

Drift potential generally increases with wind speed. AVOID APPLICATIONS DURING GUSTY WIND CONDITIONS.

Applicators need to be familiar with local wind patterns and terrain that could affect spray drift.

UNDESIRABLE FRUIT ELIMINATION (Ornamental Use Only)

A foliar spray of FLOREL BRAND GROWTH REGULATOR will reduce or eliminate undesirable fruit on ornamental trees and shrubs such as: Apple, Crabapple, Carob, Elm, Flowering pear, Flowering plum, Horsechestnut (Buckeye), Oak, Olive, Sour Orange, Sweetgum, Sycamore and others. Applications must be made before fruit set for best results.

When applied to plants, FLOREL BRAND GROWTH REGULATOR readily enters the plant and breaks down to ethylene, a naturally occurring plant hormone. Ethylene production within the plant is stimulated by stress. For this reason it is important that plants being treated are not under stress from drought, high temperature, disease or other environmental stress conditions. Treating stressed plants can cause severe injury to the plant such as defoliation or leaf scorching. Injury from FLOREL BRAND GROWTH REGULATOR usually does not kill the plant, but can render it unsightly.

Applications should be made at the mid to full bloom stage, prior to fruit set in spray volumes sufficient to wet, but not to runoff. Failure to wet blooms thoroughly will cause incomplete fruit elimination. Spraying too much (until runoff) may cause some defoliation or other plant injury. Sprays applied too early or too late will be less effective and result in incomplete fruit elimination. The activity of FLOREL BRAND GROWTH REGULATOR is linked to plant growth activity and is therefore slower acting when temperatures are low (60ºF) or very high (95ºF). Trees or shrubs should not be under stress when treated such as from drought, insects or diseases. Apply when rain is not expected for 24 hours.

For most species, mix 1 quart of FLOREL BRAND GROWTH REGULATOR in 10 gallons of water (1,000 ppm of ethephon in spray solution) and apply to thoroughly wet blooms but not to runoff. Amount of spray used will depend on tree size. Some temporary leaf yellowing and leaf drop of old leaves may occur after treatment.

For sensitive species such as Carob: Mix 1/2 quart FLOREL BRAND GROWTH REGULATOR in 10 gallons of water (500 ppm of ethephon in spray solution) and apply to thoroughly wet buds and blooms but not to runoff. Amount of spray solution used will depend on tree size. Some temporary leaf yellowing and drop of old leaves may occur after treatment.

FLOREL BRAND GROWTH REGULATOR has not been tested on all varieties of trees or shrubs which may have undesirable fruit. If it is necessary to treat plant species not listed above, treat only a small portion of the plant to determine the effectiveness of the product and to evaluate plant injury.

NOTES: (1) Plants under sprayed trees are usually not affected at this rate. However, some plants are sensitive to FLOREL BRAND GROWTH REGULATOR (nandina, maples, etc.). If desired or if effects are unknown, the plants may be covered before spraying or the solution can be washed off of foliage with a water hose after application. (2) FLOREL BRAND GROWTH REGULATOR is not intended to be used in commercial fruit production as a thinning agent.

DWARF MISTLETOE REMOVAL

Use FLOREL BRAND GROWTH REGULATOR as a foliar spray on ornamental conifers for removal of dwarf mistletoe shoots and seeds. Applications made in conjunction with silvicultural mistletoe management will prevent spread of the mistletoe parasite to other parts of the tree and to other trees. Mix 1 quart of FLOREL BRAND GROWTH REGULATOR in 4 gallons of water (2,700 ppm of ethephon in spray solution) and spray to "wet." When treating mistletoe in Douglas Fir, mix 1 pint of FLOREL BRAND GROWTH REGULATOR in 4 gallons of water (1350 ppm of ethephon in spray solution). Application of higher rates on Douglas Fir may result in excessive needle drop. Use of a nonionic surfactant at recommended rates may increase effectiveness. Treat any mistletoe regrowth before seed dispersal occurs. Mature needle drop, that normally occurs in the fall, may be hastened by the use of FLOREL BRAND GROWTH REGULATOR Apply when temperature is above 65°F and rain is not expected for 24 hours. NOTE: Plants under sprayed trees may be sensitive to FLOREL BRAND GROWTH REGULATOR at this rate. Either cover the plants before spraying or wash the solution off of foliage with a water hose after application.

LEAFY MISTLETOE REMOVAL

Use FLOREL BRAND GROWTH REGULATOR as a foliar spray on ornamental deciduous trees for removal of leafy mistletoe shoots and seeds. Make applications after fall leaf drop or in spring just before leaf out. Apply when temperature is above 65°F and rain is not expected for 24 hours. Mix 2 quarts of FLOREL BRAND GROWTH REGULATOR in 4 gallons of water (5,400 ppm of ethephon in spray solution). Use of a nonionic surfactant at recommended rates may increase effectiveness. For effective removal of all mistletoe, shoots must be sprayed to "wet." Large mistletoe infections and mistletoe found in mesquite may be difficult to control with a single application and retreatment may be necessary. Should regrowth of mistletoe occur, retreat prior to mistletoe seed dispersal during the labeled application window. NOTE: Plants under sprayed trees may be sensitive to FLOREL BRAND GROWTH REGULATOR at this rate. Either cover the plants before spraying or wash the solution off of foliage with a water hose after application.

RESIDENTIAL OR HOMEOWNER USE:

Residential applicators or Homeowners may use this product for UNDESIRABLE FRUIT ELIMINATION (Ornamental Use Only) and MISTLETOE REMOVAL by following the Application Rates listed below.

HOME SPRAY GUIDE FLOREL BRAND GROWTH REGULATOR *Read Detailed Instructions In This Pamphlet First*		
	Amount to Use	
	FLOREL®	**Water**
Fruit Elimination		
Carob	1.5 Fluid Ounces	1 Gallon
Other Species	3 Fluid Ounces	1 Gallon
Mistletoe Removal		
Dwarf Mistletoe	8 Fluid Ounces	1 Gallon
Leafy Mistletoe	16 Fluid Ounces	1 Gallon

NOTE: 1 fluid ounce = 2 tablespoons = 6 teaspoons

STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage or disposal.

PESTICIDE STORAGE: Store in original container only. Keep in a cool, dry place inaccessible to children or animals, preferably in a locked storage area.

PESTICIDE DISPOSAL AND CONTAINER HANDLING: Do not reuse this container or refill this container. **If empty:** Place in trash or offer for recycling if available. **If partly filled**: Call your local solid waste agency for disposal instructions. Never place unused product down any indoor or outdoor drain.

CONDITIONS OF SALE AND WARRANTY

Lawn and Garden Products, Inc. warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated when used in accordance with the use directions under normal conditions. Lawn and Garden Products, Inc. neither makes, nor authorizes any agent or representative to make, any other warranties, express or implied, including fitness or merchantability.

The directions for use of this product are believed to be reliable and should be followed carefully. However, it is impossible to eliminate all risks inherently associated with use of this product. Plant injury, ineffectiveness or other unintended consequences may result because of such factors as timing and method of application, weather and plant conditions, presence of other materials, or other influencing factors, all of which are beyond the control of Lawn and Garden Products, Inc. and Seller. To the extent consistent with applicable law, buyer and user acknowledge and assume all risks and liability resulting from the handling, storage and use of the material not in strict accordance with directions given herewith. To the extent consistent with applicable law, Lawn and Garden Products, Inc. or the Seller shall not be liable for consequential, special, indirect, or incidental damages or losses resulting from the handling or use of this product. The foregoing is a condition of sale by Lawn and Garden Products, Inc. and is accepted as such by the Buyer.

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