

U.S. ENVIRONMENTAL PROTECTION AGENCY

Office of Pesticide Programs
Registration Division (7505T)
1200 Pennsylvania Ave., N.W.

Washington, D.C. 20460

\_X Registration
\_\_\_ Reregistration
(under FIFRA, as amended)

EPA Reg. Number:	Date of Issuance:
100-1747	9/11/25

Term of Issuance:	
Unconditional	

Name of Pesticide Product:

Ethephon 2Force

Name and Address of Registrant (include ZIP Code):

Syngenta Crop Protection, LLC P. O. Box 18300 Greensboro, NC 27419

**Note:** Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby registered under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA).

Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

This product is unconditionally registered in accordance with FIFRA section 3(c)(5) provided that you:

1. Submit and/or cite all data required for registration/reregistration/registration review of your product when the Agency requires all registrants of similar products to submit such data.

Continues page 2

Signature of Approving Official:	Date:	
	9/11/25	
Stephanie Suarez, Ph.D., Acting Product Manager 22		
Fungicide Branch, Registration Division (7505T)		

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- 2. Make the following label changes before you release the product for shipment:
  - Revise the EPA Registration Number to read, "EPA Reg. No. 100-1747."
- 3. Submit one copy of the final printed label for the record before you release the product for shipment.

Should you wish to add/retain a reference to the company's website on your label, then please be aware that the website becomes labeling under FIFRA and is subject to review by the Agency. If the website is false or misleading, the product would be misbranded and unlawful to sell or distribute under FIFRA section 12(a)(1)(E). 40 CFR 156.10(a)(5) lists examples of statements EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product's label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore, should the Agency find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA approved registration, the website will be referred to the EPA's Office of Enforcement and Compliance.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6. Your release for shipment of the product constitutes acceptance of these conditions. A stamped copy of the label is enclosed for your records.

The record for this product currently contains the following CSF(s):

• Basic CSF dated 11/15/2023

If you have any questions, please contact James Orrock by phone at 202-566-2862 or by email at orrock.james@epa.gov.

Enclosure

# **ETHEPHON 2FORCE**

# For Commercial or Agricultural Use Only. Not For Residential Use.

Plant Growth Regulator for use to promote earlier ripening and maturation of Apples, Blackberries, Blueberries, Cantaloupes, Cherries, Grapes, Peppers, Pineapple, and Tobacco

Ac	tiv	e I	na	red	lier	ıt:
		•				

Ethephon*:	21.7%
Other Ingredients:	78.3%
Total:	100.0%

\*Contains 2 pounds ethephon per gallon

EPA Reg. No. 100-XXXX EPA Est.

Net Contents: \_\_\_\_\_ Gallons

# **KEEP OUT OF REACH OF CHILDREN DANGER/PELIGRO**

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail)

	FIRST AID					
IF IN EYES:	<ul> <li>Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li> <li>Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li> <li>Call a poison control center or doctor for treatment advice.</li> </ul>					
<ul> <li>Take off contaminated clothing.</li> <li>CLOTHING:</li> <li>Rinse skin immediately with plenty of water for 15-20 minutes.</li> <li>Call a poison control center or doctor for treatment advice.</li> </ul>						
IF SWALLOWED:	<ul> <li>Immediately call a poison control center or doctor for treatment advice.</li> <li>DO NOT induce vomiting unless told to do so by a poison control center or doctor.</li> <li>Have person sip a glass of water if able to swallow.</li> <li>DO NOT give anything by mouth to an unconscious person.</li> </ul>					
IF INHALED:	<ul> <li>Move person to fresh air.</li> <li>If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably month-to- mouth if possible.</li> <li>Call a poison control center or doctor for further treatment advice.</li> </ul>					
Have the product	Have the product container or label with you when calling a poison control center or doctor or going for treatment.					
HOTH INF NUMBER						

# **HOTLINE NUMBER**

For 24-Hour Medical Emergency Assistance (Human or Animal) or Chemical Emergency Assistance (Spill, Leak, Fire, or Accident), Call

1-800-888-8372

# ACCEPTED

09/11/2025

Under the Federal Insecticide, Fungicide and Rodenticide Act as amended, for the pesticide registered under EPA Reg. No. 100-1747

**NOTE TO PHYSICIAN:** Probable mucosal damage may contraindicate the use of gastric lavage. No specific antidote is available. All treatments should be based on observed signs and symptoms of distress in the patient. Overexposure to materials other than this product may have occurred.

Victims of severe overexposure by inhalation should be kept under medical observation for up to 72 hours for delayed onset of pulmonary edema. In a victim of overexposure by ingestion, careful gastric lavage is required due to the possibility of stomach or

esophageal perforation. This material is an acid, but the use of alkaline substances to neutralize it is contraindicated.

**Optional Text –** [ For additional precautionary, handling, and use statements, and First Aid instructions see inside of this booklet.]

# PRECAUTIONARY STATEMENTS

# DANGER/PELIGRO HAZARDS TO HUMANS AND DOMESTIC ANIMALS

**Corrosive:** Causes irreversible eye damage. Wear safety goggles when handling. Harmful if swallowed or absorbed through skin. **DO NOT** get in eyes or on clothing. Avoid contact with skin. **DO NOT** inhale vapors, as this product will irritate mucous membranes.

#### PERSONAL PROTECTIVE EQUIPMENT (PPE)

# Applicators and other handlers must wear:

- Coveralls over long-sleeved shirts and long pants.
- Chemical resistant gloves made of Barrier Laminate, Butyl Rubber ≥ 14 mils, Nitrile Rubber ≥ 14 mils, Neoprene Rubber ≥ 14 mils, Polyvinyl Chloride (PVC) ≥ 14 mils, or Viton® ≥ 14 mils.
- Chemical-resistant footwear plus socks.
- Protective eyewear.
- Chemical-resistant headgear for overhead exposure.
- Chemical-resistant apron when mixing, loading or cleaning equipment.

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. **DO NOT** reuse them. Follow manufacturer's instructions for cleaning and maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides 40 CFR 170.240(d)(4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

#### **USER SAFETY RECOMMENDATIONS**

#### **Users Should:**

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Wash contaminated clothing before reuse.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

#### **ENVIRONMENTAL HAZARDS**

**For Terrestrial Uses**: **DO NOT** contaminate water used for irrigation or domestic purposes. **DO NOT** apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. **DO NOT** contaminate water when disposing of equipment washwaters.

Avoid spray drift to nearby crops as this product will cause modifications in plant growth. Plant injury or reduced yields may result.

**DO NOT** plant another crop within 30 days after treatment.

Drift and runoff may be hazardous to aquatic organisms in water adjacent to treated areas.

**NON-TARGET ORGANISM ADVISORY STATEMENT:** This product is toxic to plants and may adversely affect 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.

# **Spray Drift**

# **Aerial Applications:**

- **DO NOT** release spray at a height greater than 10 feet above the vegetative canopy, unless a greater application height is needed for pilot safety
- For all applications, applicators are required to use a fine to medium or coarser droplet size (ASABE S572.1).
- The boom length must not exceed 65% of the wingspan for airplanes or 75% of the rotor blade diameter for helicopters.
- Applicators must use ½ swath displacement upwind at the downwind edge of the field.
- Nozzles must be oriented so the spray is directed toward the back of the aircraft.
- DO NOT apply when wind speeds exceed 10 miles per hour at the application site.
- DO NOT apply during temperature inversions.

# **Ground Boom Applications:**

- Apply with the nozzle height recommended by the manufacturer, but no more than 3 feet above the ground or crop canopy.
- For all applications, applicators are required to use a fine to medium or coarser droplet size (ASABE S572.1).
- **DO NOT** apply when wind speeds exceed 10 miles per hour at the application site.
- DO NOT apply during temperature inversions.

# **Boomless 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.

#### **Controlling Droplet Size - Ground Boom**

- Volume Increasing the spray volume so that larger droplets are produced will reduce spray
  drift. Use the highest practical spray volume for the application. If a greater spray volume is
  needed, consider using a nozzle with a higher flow rate.
- **Pressure** Use the lowest spray pressure recommended for the nozzle to produce the target spray volume and droplet size.
- **Spray Nozzle** Use a spray nozzle that is designed for the intended application. Consider using nozzles designed to reduce drift.

#### **Controlling Droplet Size – Aircraft**

Adjust Nozzles – Follow nozzle manufacturer's recommendations for setting up nozzles.
 Generally, to reduce fine droplets, nozzles should be oriented parallel with the airflow in flight.

# **Boom Height - Ground Boom**

 For ground equipment, the boom should remain level with the crop and have minimal bounce.

# Release Height - Aircraft

Higher release heights increase the potential for spray drift.

# **Shielded Sprayers**

 Shielding the boom or individual nozzles can reduce spray drift. Consider using shielded sprayers. Verify that the shields are not interfering with the uniform deposition of the spray on the target area.

# **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.

# **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. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulations. Read the entire label before using this product.

**DO NOT** apply Ethephon 2Force through any type of chemigation system. **DO NOT** use this product for purposes other than those listed on the label.

DO NOT exceed the rate of Ethephon 2Force per acre per year recommended on this label.

#### AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR Part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE) and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

**DO NOT** enter or allow worker entry into treated areas during the restricted entry interval (REI) of **48 hours**. The REI is 72 hours in areas where average rainfall is less than 25 inches per year.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil or water is:

- Coveralls over long-sleeved shirt and long pants.
- Chemical resistant gloves made of Barrier Laminate, Butyl Rubber ≥ 14 mils, Nitrile Rubber ≥ 14 mils, Neoprene Rubber ≥ 14 mils, Polyvinyl Chloride (PVC) ≥ 14 mils, or Viton® ≥ 14 mils.
- Chemical resistant footwear plus socks
- Protective eyewear
- Chemical-resistant headgear for overhead exposure

Notify workers of the application by warning them orally and by posting warning signs at all entrances to treated areas

#### **GENERAL INFORMATION**

Ethephon 2Force promotes earlier fruit coloration and maturation when used on APPLES, BLACKBERRIES, BLUEBERRIES, CANTALOUPES, CHERRIES, GRAPES, PEPPERS, PINEAPPLE, and TOBACCO. It also aids in barrenberry control on BLUEBERRIES. Ethephon 2Force loosens APPLES, BLACKBERRIES, and CHERRIES for earlier, more efficient harvest. When applied as directed to CANTALOUPES, it also promotes fruit abscission (slipping). Ethephon 2Force increases dormant fruit bud hardiness and delayed spring bloom of SWEET CHERRIES in the Pacific Northwest.

For local recommendations on rates, spray volumes (gallons of water per acre), and spray equipment under varying temperature and rainfall conditions consult your Extension Pomologist, Horticultural Specialist, or Farm Advisor for his experience with this product in your area.

When an adjuvant is to be used with this product, Syngenta suggests the use of a Chemical Producers and Distributors Association certified adjuvant.

#### **APPLICATION VOLUMES AND SPRAY COVERAGE**

Thorough spray coverage is essential to achieve maximum product effectiveness. Spray coverage is affected by choice of equipment, nozzle selection and spray boom setup as well as spray pressure, plant size and canopy density. For both air and ground applications, it is important to choose an equipment setup that will assure thorough coverage of plant canopy (foliage and fruit). The actual spray volume required will vary with the size and density of the plant canopy and the equipment used. In California and Arizona use a volume of no less than 5 gallons per acre for aerial applications.

#### **USE PRECAUTIONS**

**DO NOT** MIX Ethephon 2Force WITH AMMONIUM THIOSULFATE. SUCH TANK MIXTURES MAY RESULT IN FORMATION OF TOXIC FUMES.

Mix only the amount of spray you expect to use each day. **DO NOT** allow mixed solution to stand overnight.

Avoid spray drift to nearby crops as this product will cause modification in plant growth. Plant injury or reduced yields will result. **DO NOT** plant another crop within 30 days after treatment.

**DO NOT** use Ethephon 2Force with additives other than recommended on this label. Avoid spills of concentrated product on spray equipment or airplane parts.

IMMEDIATELY RINSE ANY SPILLS WITH PLENTY OF WATER AS Ethephon 2Force is CORROSIVE.

### **EQUIPMENT CLEANING**

Because of the acidic nature of this product, prolonged exposure to spray deposits will damage acrylic plastics, certain paints, and metals.

Rinse thoroughly all exposed acrylic-plastic materials and painted surfaces with a detergent and water within one hour after exposure to spray deposits.

# **CROP USE INSTRUCTIONS**

#### **APPLES**

Ethephon 2Force promotes fruit maturity and loosens apples, making harvest by hand or machine easier and more efficient. Ethephon 2Force applied in combination with FRUITONE® N (sodium 1-naphthaleneacetate, EPA Reg. No. 5481-427) control pre-harvest drop stimulates early development of red color and ripening without loosening fruit. When applied to young trees, Ethephon 2Force will suppress vegetative growth and promote flower bud formation.

For best results, apply a thorough uniform spray. Use sufficient water for thorough uniform spray coverage, based on type of sprayer and size of trees. A wetting agent may improve spray coverage.

#### **Precautions:**

- Use of Ethephon 2Force can result in over thinning and reduced fruit size, especially on young trees just starting to bear.
- Environmental factors can affect thinning and return bloom. It is advisable to obtain experience under your conditions by initially testing only a small percent of your trees each year with any one program.
- Treat only vigorous trees since excessive growth reduction will result on weak trees.
- Avoid double coverage.
- Fruit size reduction may occur when used to obtain early maturity, especially if fruit is small at time of treatment.
- If applied earlier than 3 weeks before normal anticipated harvest may result in reduced fruit quality and size.

Crop & Desired Effect	Rate Pints/Acre	Specific Directions	Remarks
Promoting Fruit Loosening; 1. Early and mid-season maturing varieties (i.e., maturing with McIntosh or earlier) 2. Late Maturing Varieties in the Eastern United States (i.e., maturing later than McIntosh)	2.5 (0.625 lb ai/A) 5.0 (1.25 lb ai/A)	Apply a dilute foliar spray of Ethephon 2Force at 7 to 14 days before normal anticipated harvest.  Monitor fruit maturation daily, since treated fruit will mature sooner than untreated fruit.	Treat when air temperatures are between 60°F and 90°F. However, application may be made at 50°F under rising temperature conditions. If daytime temperatures are warm, color response from Ethephon 2Force treatment will be reduced, but ripening and loosening effects will be accelerated. Cool weather may extend the interval between treatment and harvest.  DO NOT allow fruit to become overripe on trees. Fruit intended for fresh market must be checked for quality and maturity, since fruit color alone is not an accurate indicator of fruit maturity. Use a pressure gauge or other suitable methods to
Promoting Uniform Opening and Coloring of red Varieties Without Fruit Loosening; 1. Early and mid-season maturing varieties (i.e., maturing with McIntosh or earlier) 2. Late Maturing Varieties (i.e., maturing Varieties (i.e., maturing Varieties) later than McIntosh)	1.0 – 4.0 (0.25 – 1.0 lb ai/A) 2.0 – 4.0 (0.5 – 1.0 lb ai/A)	for storage.  Monitor fruit maturation daily, since treated fruit will mature sooner than	determine maturity. When stored, overmatured fruit may soften sooner than untreated fruit. <b>DO NOT</b> apply Ethephon 2Force to more acreage than can be harvested in 1 to 2 days.  Treated fruit can be satisfactorily held in cold air storage provided fruit is in good condition.  Since recommendations for chemical control of pre-harvest drop vary according to location and variety, follow directions on the FRUITONE® N (sodium 1-naphthaleneacetate, EPA Reg. No. 5481-427) label. In addition, you may consult your local extension Pomologist or Horticulturist for his
Thinning and Return Bloom 1. Most Varieties 2. Difficult to Thin Varieties Such as Golden Delicious	1.5 – 4.0 (0.375 – 1.0 lb ai/A) 3.0 – 6.0 (0.75 – 1.5 lb ai/A)	untreated fruit.  Treat with Ethephon 2Force at 10 to 20 days after full bloom.  For greater thinning, apply Ethephon 2Force in combination with AMID-THIN® W (1-Napthaleneacetamide, EPA Reg. No. 5481-426) or with a Carbaryl-containing insecticide registered for use on apples at 7 to 21 days after full bloom. Use tank mix partners in accordance with their respective directions for use, limitations and precautions. DO NOT tank mix Ethephon 2Force with any product prohibiting such mixing. Consult local extension recommendations.  Addition of a non-ionic surfactant can enhance treatment performance.  Buffering spray solution to a pH 3-5	recommendations.  Whenever a high percent of the spurs and lateral buds bloom in a single season, severe alternate bearing can develop the following year.  To overcome this problem, use Ethephon 2Force or a combination or Ethephon 2Force plus AMID-THIN® W (1-Napthaleneacetamide, EPA Reg. No. 5481-426) or a Carbaryl-containing insecticide, depending on the amount of thinning required and the biennial bearing history of your orchard.  Expect Red Delicious to show a reduction of "typiness" and fruit size, particularly on trees under stress.  Use of higher label rates may reduce fruit size.

		can improve performance where water is alkaline. Use a spray volume sufficient to cover trees thoroughly and uniformly.	
Increasing Flower		Treat 2 to 4 weeks after full bloom.	Ethephon 2Force should reduce
Bud Development	2.0 - 8.0	Use the higher rate on more vigorous	vegetative growth and increase flowering
1. Non-bearing	(0.5 - 2.0  lb)	trees. Spray trees thoroughly and	the following spring. Trees should be
Trees	ai/A)	uniformly to the point of runoff.	large enough to support a crop of apples before treatment to initiate flower buds.
2. Bearing Trees	0.5 - 3.0	To minimize fruit thinning, reduced	soloro a odament to miliato novor sado.
		fruit size	
	(0.125 –	and yield reduction in the year of usage,	
	0.75 lb ai/A)	delay application to bearing trees until 6 weeks after full bloom and after June	
		drop.	

- **DO NOT** harvest treated apples sooner than 7 days after last application.

- DO NOT graze or feed cover crops grown in treated apple orchards.

  DO NOT apply more than 8.0 pints (2.0 lb ai) of Ethephon 2Force per acre per year.

  DO NOT exceed 5.0 pints (1.25 lb ai) of Ethephon 2Force per acre per year when using for fruit loosening, and promotion of uniform ripening and coloring of red varieties without loosening.

  DO NOT make more than 3 applications per year.
- Minimum retreatment interval: 7 days

# **BLACKBERRIES**

# (For Use Only in Oregon and Washington)

Ethephon 2Force will concentrate maturity and loosen fruit, thereby improving harvest efficiency while reducing cane injury from mechanical harvest.

Crop Situation	Rate Pints/Acre	Specific Directions	Remarks
Promoting Fruit	5.0 – 8.0 (1.25 – 2.0 lb ai/A)	To loosen fruit and concentrate maturity,	Use Ethephon 2Force either 1) early in the
Loosening and	10 0117 19	apply a foliar spray of Ethephon 2Force at	harvest season to reduce the number of
Uniform		least 3 days before expected harvest	pickings or 2) later in the harvest season for
Ripening		when air temperatures are between 60°F and	a once-over final picking.
(Cultivars -		90°F and rain is not predicted within 24	DO NOT treat more acreage than can be
Chehalem		hours.	harvested on the third day following
Thomless and		Use sufficient volume to insure thorough	treatment as considerable fruit may drop.
Evergreen)		and uniform wetting of foliage and fruit.	чор.

- **DO NOT** use on damaged or diseased plants. Use only at recommended times and rates on healthy, vigorous plants, as a reduction in berry size may occur.
- DO NOT harvest treated blackberries sooner than 3 days after last application.
- **DO NOT** apply more than 8.0 pints (2.0 lb ai) of Ethephon 2Force per acre per year.
- DO NOT make more than 1 application per year.

# BLUEBERRIES (Except in California)

Ethephon 2Force concentrates maturity of blueberries for easier and more efficient harvest. Ethephon 2Force will abort black barrenberry (*Aronia melanocarpa*) flowers and/or fruit growing in Maine lowbush blueberry fields, thereby reducing the number of undesirable barrenberry fruit harvested with blueberries.

#### **Precautions:**

 Applications to cultivars other than those listed above may cause excessive steminess and/or premature crops.

Desired Effect	Rate Pints/Acre	Specific Directions	Remarks
Concentrating Maturity and Earlier Fruit Coloring (Cultivars - Bluecrop, Weymouth, Jersey, Rancocas, Rubel, Bluetta, Erliblue, Wolcott, Croatan, Murphy, Angola, Morrow, Garden Blue, Trifblue and NC901)	4.0 – 8.0 (1.0 – 2.0 lb ai/A)	To concentrate first harvest, apply a foliar spray of Ethephon 2Force when 15% to 20% of the berries are blue. To concentrate final harvest, treat after the first or second picking. Apply Ethephon 2Force in 150-200 gallons per acre. Use the higher spray volume and rate on large dense foliage bushes or when temperatures are cool. Treat when air temperatures are 60°F to 90°F. Thorough uniform spray coverage of foliage and fruit is essential for maximum fruit maturation and coloration. To aid uniform wetting of plants, use a wetting agent such as Triton B-1956 at 0.5 pint per 100 gallons or X- 77 at 2.0 pints per 100 gallons.	Harvest blueberries at proper maturity when colored, generally one to two weeks after treatment.  Observe fruit daily as the proper picking period for optimum internal and external quality is shorter with Ethephon 2Force treated fruit than with untreated fruit. High temperatures (90°F) accelerate fruit ripening. Ethephon 2Force treatments may increase fruit with stems, slightly decrease fruit size, soluble solids and acidity. Ethephon 2Force may not induce internal ripening as rapidly as fruit color.
Control of Black Barrenberry in Lowbush Blueberries in Maine	4.0 – 8.0 (1.0 – 2.0 lb ai/A)	Apply Ethephon 2Force in approximately 100-200 gallons per acre for ground sprayers and approximately 10 gallons per acre for aerial application.  Thorough uniform spray coverage is essential. To aid in uniform wetting of plants, use a wetting agent such as X-77 at 0.1% of the spray volume.	Use the lower rates of Ethephon 2Force when black barrenberries are between 90% to 100% petal fall and use the higher rates of Ethephon 2Force when black barrenberry fruit is 1/8 to 3/16 inch in diameter. This is generally 7 to 10 days after blueberries are in the same stages of development. Harvest blueberry fruit when ripe, generally 6 to 8 weeks after application.

- Not for use in California.
- **DO NOT** make more than 1 application per season.
- **DO NOT** make a second application for blueberry concentration of maturity or coloring if used for barrenberry control in Maine.
- **DO NOT** treat blueberry plants under drought stress or excessively high temperatures as defoliation and reduced yield may result.
- **DO NOT** apply more than 8 pints (2.0 lb ai) of Ethephon 2Force per acre per year.
- · Harvest when berries have reached maturity.

### **CANTALOUPES**

# (For Use Only in Arizona, California, and Texas)

Ethephon 2Force promotes abscission (slipping) of fruit allowing more efficient and economical harvesting.

#### **Precautions:**

- Some yellowing or rapid aging of vines will be seen following treatment.
- Ethephon 2Force promotes abscission of immature fruit as well as marketable fruit.

Desired Effect Pints/Acre		Specific Directions	Remarks
Promoting Fruit	3.0	Apply Ethephon 2Force C as a foliar	The effect will be faster at higher
Abscission	(0.75 lb ai/A)	spray when fruit has developed	temperatures. Proper timing of Ethephon
		marketable levels of soluble solids and	2Force treatment is critical, but may vary
		flesh color. Using Ethephon 2Force too	from season to season. Fruit quality, in
		soon will result in poorly colored fruit with	terms of soluble solids and flesh color,
		substandard soluble solids.	does not improve following treatment.
		For adequate spray coverage, use at	Therefore, Ethephon 2Force should not
		least 40 gallons/acre for ground and at	be used until after fruit has developed
		least 10 gallons/acre for aerial	marketable levels of soluble solids and
		application. (Aerial applications are only	flesh color.
		permitted in Texas.) Be prepared to	Observe treated fields frequently and pick
		harvest abscised fruit 2 to 5 days after	fruit when market quality is reached. Fruit
		treatment. The exact pre-harvest	allowed to remain in the field too long will
		interval will vary with temperature. Be	lose quality. Plants with low vigor will not
		sure to coordinate your harvesting schedule with your packer/shipper.	respond properly.

- DO NOT apply Ethephon 2Force when night temperatures are below 60°F.
- **DO NOT** treat fields where soluble solids are running less than 10%. Treat only those fruit that have a fairly uniform fruit set, have vines in good condition, and have fruit with marketable soluble solids and internal flesh color.
- **DO NOT** harvest treated cantaloupes sooner than 2 days after last application.
- **DO NOT** apply more than 3.0 pints (0.75 lb ai/A) of Ethephon 2Force per acre per year.
- **DO NOT** plant another crop within 30 days after treatment.
- DO NOT make more than 1 application per year.

# CHERRIES (Except in California)

Ethephon 2Force loosens fruit and promotes early uniform ripening, which reduces the shaker force needed for mechanical fruit harvest. These effects improve harvest efficiency, recoverable yields, maintain fruit quality and reduce tree injury. A fall application of Ethephon 2Force to sweet cherries in the Pacific Northwest will increase dormant bud hardiness and delay bloom the following spring.

#### **Precautions:**

- Uniform coverage is important. Overdosing from overlapping swaths or spray nozzle patterns or erratic application can result in gummosis and tip dieback.
- Some early leaf yellowing and drop may be noted following application.
- Some gummosis of cherry trees is associated with Ethephon 2Force treatment.
- High temperatures during and after application may cause severe gummosis.
- If possible, irrigate orchards to prevent drought stress resulting in gummosis.

Crop & Desired Effect	Rate Pints/Acre	Specific Directions	Remarks
TART CHERRIES – Promoting Fruit Loosening and Uniform	Dilute Spray 1.0 (0.25 lb ai/A)	Apply a dilute spray with sufficient water for thorough, uniform coverage. The optimum spray volume will depend on tree size, planting density and equipment used.	At the time of application, all fruit including those inside the tree canopy, should be in stage 3 as indicated by rapid size increase and the presence of ground color (change from bright green to yellow background
Ripening	Concentrate Spray 0.66 – 1.0 (0.165 – 0.25 lb ai.A)	Concentrate sprays, generally less than 100 gallons per acre, require uniform coverage for optimum response.	color). Expect a longer treatment to harvest interval with lower rates.
SWEET CHERRIES (varieties such as Windsor, Napoleon-Royal Anne, Emperor Francis) – Promoting Fruit Loosening and Uniform Ripening	Dilute Spray 3.0 – 4.0 (0.75 – 1.0 lb ai/A)	Apply a dilute spray with sufficient water for thorough uniform coverage. Actual volume will depend on the type of delivery, sprayer used and size of trees. Use low rates on the light or yellow-colored varieties.	Some gummosis of cherry trees is associated with Ethephon 2Force treatment. If possible, irrigate orchards to prevent drought stress resulting in gummosis.
	Concentrate Spray 2.0 – 3.0 (0.5 – 0.75 lb ai/A)	Concentrate sprays, generally less than 100 gallons per acre, require uniform coverage for optimum response.	
SWEET CHERRIES in the Pacific Northwest Increasing Dormant Fruit Bud Hardiness and Delaying Spring Bloom	3.0 (0.75 lb ai/A)	Treat in first two weeks of September.	A fall application of Ethephon 2Force will increase fruit bud hardiness by decreasing the chance for winter injury and delaying bloom by 3 to 5 days which may help avoid frost injury. Treatment of early flowering varieties may delay bloom to better coincide with pollination from other varieties. Some gummosis of cherry trees is associated with Ethephon 2Force treatment. If possible, irrigate orchards to prevent drought stress resulting in gummosis.

- Not for use in California.
- **DO NOT** treat too early as this can cause early fruit drop with stems attached.
- DO NOT treat trees that had severe gummosis the previous year as tree damage will result.
- DO NOT apply to trees that are of low vigor or have experienced severe stress (such as

winter injury, drought, or disease), since gummosis will be excessive, particularly when high temperatures and/or drought follow treatment.

- **DO NOT** treat when air temperatures exceed 85°F. Treat when air temperatures are between 60°F and 85°F.
- **DO NOT** harvest treated cherries sooner than 7 days after last application.
- **DO NOT** apply more than 4.0 pints (1.0 lb ai) of Ethephon 2Force per acre per year. **DO NOT** make more than 1 application per year.

# **GRAPES**

# (For Use Only in California and Arizona)

**TABLE GRAPES:** Ethephon 2Force promotes early uniform color development on table grape varieties such as Cardinal, Emperor, Flame seedless, Red Malaga, Queen and Tokay, thereby allowing more efficient harvests of quality fruit.

#### **Precautions:**

- Rates higher than 1 pint/A may increase the incidence of cracked fruit and should be used only in areas or during weather conditions where grapes have been especially hard-to-color in past seasons.
- Ethephon 2Force treatment of certain varieties may cause some berry softening, which may limit or influence storage considerations.

**GRAPES FOR RAISIN PRODUCTION:** Ethephon 2Force will hasten maturity of Thompson seedless grapes resulting in reduced acids, increased sugars and increased raisin quality.

Crop	Rate Pints/Acre	Specific Directions	Remarks
TABLE GRAPES (varieties such as Cardinal, Flame Seedless, Red Malaga, and Queen)	0.5 – 2.0 (0.125 – 0.5 lb ai/)	Apply a foliar spray of Ethephon 2Force when 5% – 30% of berries show color. For high temperature conditions (above 85°F) use lower rates of 0.5 to 1.0 pint per acre. For low temperature conditions (but above 65°F), use higher rates. Apply in sufficient water to wet vines and fruit clusters uniformly, using conventional ground sprayers.	Harvest fruit at desired maturity and quality as indicated by sugar content, acidity and color. This is generally two weeks or more after treatment. Monitor treated crop closely and harvest before berries become too dark. For more information regarding local experiences with this product on grapes, consult your Farm Advisor or Extension Viticulturist.
TOK AY GRA PES	1.0 – 2.0 (0.25 – 0.5 lb ai/A)	Treat when 5% – 15% berries show color. Apply in sufficient water to wet vines and fruit clusters uniformly, using conventional ground sprayers.	
GRAPES FOR RAISIN PRODUCTIO N, (Thompson Seedless)	1.0 – 2.0 (0.25 – 0.5 lb ai/A)	Apply a foliar spray at 5% berry softening. Treat when 5% – 30% of berries show color. Apply in sufficient water to wet vines and fruit clusters uniformly, using conventional ground sprayers.	Ethephon 2Force will hasten maturity of Thompson Seedless grapes resulting in reduced acids, increased sugars and increased raisin quality. For more information regarding local experience with this product on grapes consult your Farm Advisor or Extension Viticulturist.

### **USE RESTRICTIONS**

#### **Table Grapes**

- DO NOT store treated Tokays.
- **DO NOT** harvest treated grapes sooner than 14 days after last application.
- **DO NOT** apply more than 2.0 pints (0.5 lb ai) of Ethephon 2Force per acre per year.
- **DO NOT** make more than 1 application per year.

# **Raisin Production (Thompson Seedless)**

- DO NOT apply to grapes under stress from insect damage or moisture stress. Observe treated vineyards closely and harvest at proper maturity as determined by sugar acid levels.
- **DO NOT** harvest treated grapes sooner than 14 days after last application.
- DO NOT apply more than 2.0 pints (0.5 lb ai) of Ethephon 2Force per acre per year.
- DO NOT make more than 1 application per year.

#### **PEPPERS**

Ethephon 2Force promotes early, uniform ripening and coloring for more efficient packing and handling of fruit.

Thorough coverage is essential. For ground or air application, choose equipment and spray volumes that will insure uniform coverage of foliage and fruit.

#### **Precautions:**

- Some yellowing and general aging of leaves will be noted after treatment.
- Under certain conditions, tank mixtures of Ethephon 2Force with desiccants containing sodium chlorate could result in the formation of hypochlorous acids which on heating will emit toxic chloride fumes.

Desired Effect	Rate Pints/Acre	Specific Directions	Remarks
Promoting Earlier, Uniform Ripening and Coloring	1.25 – 4.0 (0.31 – 1.0 lb ai/A)	Apply Ethephon 2Force as a foliar spray to bell peppers when 10% of fruit are red and chocolate and to chili and pimento pepper varieties when 10% to 30% of fruit are red and chocolate and there is sufficient mature green fruit to produce desired tonnage. Ethephon 2Force will not ripen immature, green fruit.  Use the higher rate when cool temperatures are anticipated (less than 65°F), when plants are growing vigorously or when foliage is dense to assure thorough wetting of all leaves and fruit.  Use the lower rates with lower spray volumes (1.25 to 2.0 pint rate in 20 gal/A) and higher rates with higher volumes (3.0- 4.0 pints/40 gal/A). The 3.0-4.0 pint rate in less than 40 GPA may cause foliage burn under hot dry conditions.	Check several field locations to determine crop stage and degree of maturity. Ethephon 2Force treatments may reduce total yields if applied too early or there is a lack of uniform, mature, green fruit resulting from split fruit set or variable soil cultural practices. Harvest fruit after desired color and maturity, generally 14 or more days after treatment.

- **DO NOT** apply when prolonged average high temperatures of 95°F after treatment are expected.
- **DO NOT** treat when temperatures exceed 100°F. Applications made under high temperatures will accentuate fruit ripening, yellowing of foliage, defoliation and immature fruit abscission.
- **DO NOT** treat when average temperatures are below 60°F. Low temperatures after treatment may reduce or negate the effects of Ethephon 2Force.
- **DO NOT** harvest treated peppers sooner than 5 days after last application.
- **DO NOT** apply more than 4.0 pints (1.0 lb ai) of Ethephon 2Force per acre per year.
- **DO NOT** make more than 1 application per year.

**PINEAPPLE** Ethephon 2Force induces uniform flower initiation and stimulates uniform shell color of pineapple plants.

Desired Effect	Rate Pints/Acre	Specific Directions	Remarks
Flower Induction to stimulate uniform initiation of flowering.	4.0 8.0 (1.0 2.0 lb ai/A)	Apply a foliar spray of Ethephon 2Force when foliage is dry and plants are at "bearing age," approximately 12 months after planting, usually about 6 months before desired harvest.  Use higher rate when earlier harvest is desired.	Proper rate varies with local growing conditions, varieties, plantation management practices and the time of year.
Maturity Concentration to stimulate uniform shell color development.	2.0 8.0 (0.5 – 2.0 lb ai/A)	Apply a broadcast spray and thoroughly cover both fruit and foliage when the first fruits begin to change color. Use higher rate during periods of cloudy or cool weather when normal ripening has slowed.	

- **DO NOT** harvest treated pineapples sooner than 2 days after the last application. **DO NOT** graze treated pineapple forage.
- **DO NOT** apply more than 12 pints (3.0 lb ai) of Ethephon 2Force per acre per year. **DO NOT** make more than 2 applications per year.
- Minimum retreatment interval: 2 days

#### **TOBACCO**

# (Flue-Cured Only)

Ethephon 2Force promotes early, uniform "yellowing" of mature tobacco. Ethephon 2Force shortens curing time, allows more efficient use of curing barn space and increases control over harvest scheduling.

Ethephon 2Force may be applied as a directed spray to the bottom or middle portion of the tobacco plant or as an over-the-top spray.

Ethephon 2Force is most efficacious when applied to mature leaves; that is, not overly rank green leaves. Ethephon 2Force will not color immature leaves.

To determine leaf maturity for proper treatment timing, test spray several plants in more than one location in each field and observe the response. Mature leaves will begin to yellow in 24 to 72 hours. If test leaves fail to yellow within 72 hours, they are not mature and are not ready for Ethephon 2Force treatment. Wait a few days to permit further maturation, then make another test spray to assess leaf maturity.

To prepare a test spray, mix 4 teaspoonfuls of Ethephon 2Force in 1 quart of water. Apply about 1 ounce to each test plant covering all leaves with a fine mist.

To determine amount of crop to treat, first estimate the number of leaves per plant that will color, then use barn capacity to calculate the number of acres to treat.

To avoid quality loss and or possible leaf drop, harvest any already-yellowed leaves before application.

**When to Harvest:** Mature treated leaves will begin to color within 24 to 72 hours after Ethephon 2Force application. The yellowing process is weather dependent; cool weather will delay, while hot, sunny weather can speed up the process. To determine harvest timing and avoid quality loss or leaf drop, closely monitor treated crop and weather conditions.

Harvest treated tobacco when leaves have reached the desired color intensity. Harvest can begin within 48 hours after Ethephon 2Force application.

Curing Treated Tobacco: Curing procedures must be judged on the basis of tobacco condition, interval between treatment and harvest, weather and type of curing facility before prescription temperature and ventilation schedules can be established. To obtain maximum quality, care must be taken to closely observe and control the curing process, especially during the late "coloring" and early "drying" stages of the leaf. Ethephon 2Force treated tobacco will have started the coloring process when harvested, which will reduce the time required for the leaf coloring phase of curing. Treated tobacco should be dried faster. If tobacco leaves are green or contain some green when harvested, it may be necessary to color them for a few hours. If the leaves are completely yellow, temperature and ventilation must be adjusted in a manner to dry the tobacco as fast as possible without scalding. Once the leaf is dried (3/4 dry), follow standard procedures for curing. Since Ethephon 2Force treated leaves cure faster, treated and untreated leaves should not be cured together in the same barn.

Application Method	Rate Pints/Acre	Specific Directions
Directed Spray	4.0 (1.0 lb ai/A)	Use drop nozzles with TG or OC spray tips designed to apply 50–60 GPA at 35-40 psi when tractor speed is 2-3 mph. Use 2 nozzles per row (one nozzle on each side of the row and positioned to direct the spray to the target leaves to be ripened for harvest. Thorough spray coverage is essential. For directed sprays, harvest all leaves with 20% or more yellowing.
Over-the-Top Spray	4.0 – 8.0 (1.0 – 2.0 Ib ai/A)	Treat only when all leaves remaining on the plant are mature. To ensure remaining leaves are mature, test spray several tobacco plants as described under the section "Application Timing". Use the lower rate on a typically mature crop when experience indicates that minimum ripening inducement is required. Use the higher rate when the crop is heavy and has a tendency to be more rank. Use higher rates only during cool, slow ripening conditions when temperatures are below 65°F at the time of treatment. Always test spray to determine if the tobacco is mature enough to respond to treatment with Ethephon 2Force. Apply over-the-top spray as a fine mist at 40-60 psi, using three nozzles per row (one nozzle over the center of the plant and one on each side) to assure thorough coverage (e.g., similar to that for applications of systemic sucker control agents).

- **DO NOT** apply Ethephon 2Force to immature tobacco leaves as this can result in unsatisfactory coloring, weight loss and reduced leaf quality.
- **DO NOT** allow the crop to over ripen in the field after using Ethephon 2Force, since this may cause some reduction in yield and quality.
- **DO NOT** apply higher rates when temperatures are above 65°F at the time of treatment.
- **DO NOT** treat before anticipated major storm which could prevent harvest and result in crop loss.
- DO NOT apply Ethephon 2Force if rain is expected within 6 hours.
- DO NOT harvest treated tobacco sooner than 2 days after application.
- **DO NOT** apply more than 8.0 pints (2.0 lb ai) of Ethephon 2Force per acre per year.
- **DO NOT** make more than 1 application per year.

#### STORAGE AND DISPOSAL

**DO NOT** contaminate water, food, or feed by storage or disposal.

#### **PESTICIDE STORAGE:**

Store in a cool, dry place and away from food, feed and other pesticides. **IF SPILLED**: If container is broken or contents have spilled, follow all precautions indicated above and clean up immediately. Before cleaning up, put on full-length trousers, long- sleeved shirt, protective gloves and goggles or face shield. Soak up spill with absorbent media such as sand, earth or other suitable material and dispose of waste at an approved waste disposal facility.

#### PESTICIDE DISPOSAL:

Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

#### **CONTAINER DISPOSAL:**

**Nonrefillable Container (five gallons or less):** Nonrefillable container. **DO NOT** reuse or refill this container. Offer for recycling, if available. Clean container promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container ½ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill or by incineration or, if allowed by state and local authorities, by burning. If container is burned, stay out of smoke.

Nonrefillable Container (greater than five gallons): Nonrefillable container. DO NOT reuse or refill this container. Offer for recycling, if available. Clean container promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container ¼ full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill or by incineration or, if allowed by state and local authorities, by burning. If container is burned, stay out of smoke.

**Refillable Container:** Refillable container. Refill this container with ethephon only. **DO NOT** reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. To clean the container before final disposal, empty the remaining contents from this container into application equipment or mix tank. Fill the container about 10 percent full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times.

FOR 24-HOUR EMERGENCY ASSISTANCE (SPILL, LEAK, OR FIRE), CALL SYNGENTA AT 1-800-888-8372.

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