

## GENERAL INFORMATION

MONARCH<sup>®</sup> contains Actagro Organic Acids™ extracted from leonardite in a patented formulation. These organics are then combined with liquid plant nutrients in a patented reaction process.

MONARCH<sup>®</sup> contains a balance of available phosphate and potassium, which are intended to stimulate early growth, root development and resistance to disease. These nutrients are combined with a percentage of nitrogen to stimulate uptake, growth, fruit set and allow for a strong and vigorous plant structure.

MONARCH<sup>®</sup> is non-phytotoxic when used as directed and is compatible with most commonly used pesticides and fertilizers. MONARCH<sup>®</sup> has a low salt index and can be applied as a foliar spray or used in drip irrigation systems.

MONARCH<sup>®</sup> should not be applied to plants that are stressed by high temperature or lack of moisture. Optimum spraying conditions typically exist during early morning or late evening hours.

**WARRANTY:** Since weather, crops, soil and other conditions may vary, neither ACTAGRO, LLC, nor the Seller make a warranty of any kind, expressed or implied, concerning the use of this product. The user assumes all risk of use and handling whether or not in accordance with directions or suggestions.

**KEEP OUT OF REACH OF CHILDREN. HARMFUL IF SWALLOWED. AVOID CONTACT WITH SKIN, EYES OR CLOTHING.** In case of contact immediately flush skin, eyes or clothing with plenty of water for at least 15 minutes.

**CAUTION:** Always check compatibility with other products prior to use. Do not mix with conventional products containing the salts of heavy metals. Do not mix with conventional calcium based fertilizers.

Information regarding the contents and levels of non-nutrient metals in this product is available on the internet at <http://www.aapfco.org/metals.htm>



U.S. PATENT NO. 4,698,090 and No. 4,769,221

FORMULATED FOR FOLIAR AND DRIP USE

### GUARANTEED ANALYSIS

Total Nitrogen (N) .....	2.0%
2.0% .....	Ammoniacal Nitrogen
Available Phosphate (P <sub>2</sub> O <sub>5</sub> ) .....	20.0%
Soluble Potash (K <sub>2</sub> O) .....	15.0%
Derived from anhydrous ammonia, phosphoric acid, potassium chloride and potassium hydroxide.	

ALSO CONTAINS NON-PLANT FOOD INGREDIENTS  
3% ORGANIC ACIDS derived from leonardite.

Net Contents **5 gallons** (18.9 liters)

11.8 lbs. per gallon (1415 grams/liter) @ 68°F

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## DIRECTIONS FOR USE

ACTAGRO MONARCH<sup>®</sup> can be applied to most vegetable and cucurbit crops, field crops, row crops, deciduous fruit and nut trees, grapes, berries, olives and citrus. Timing and rate of application for each crop is critical for best results.

### FOLIAR APPLICATION RATES

**CAUTION:** Foliar application of MONARCH<sup>®</sup> close to harvest may leave a brown residue on the harvestable portion of the crop. Rainfall, sprinkler irrigation or high humidity should alleviate this condition.

**FIELD CROPS, ROW CROPS, VEGETABLES, CUCURBITS, DECIDUOUS FRUIT AND NUT TREES, GRAPES, BERRIES, OLIVES AND CITRUS:** Apply ½ to 2 gallons per acre in a minimum of 5 gallons of water per acre. Repeat applications are beneficial. May be applied through center pivot irrigation systems.

**VEGETABLES AND LEAFY CROPS:** Apply ½ to 1-½ gallons per acre in a minimum of 5 gallons of water per acre. Repeat applications are beneficial.

**NOTE:** For best results use the lowest possible volume for thorough coverage and a small droplet size.

### DRIP IRRIGATION RATES

**ALL CROPS:** Use 1 to 10 gallons per acre per irrigation. Continue irrigation for a minimum of 2 hours after application to maximize fertilizer distribution.

**BUFFER RATES TO LOWER pH:** Use 1 pint to 1 quart per 15 to 100 gallons of water in the tank solution.

### Mixing Instructions

- MONARCH<sup>®</sup> disperses well in water as follows:
1. Partially fill tank with water and start agitation.
  2. Add other nutrients or pesticides.
  3. Add MONARCH<sup>®</sup> to circulating tank mix.
  4. Fill tank and agitate thoroughly.