



NPA 31

A Neutralized Phosphorous Acid or Phosphite Fertilizer

0-31*-28

GUARANTEED ANALYSIS

Total Phosphoric Acid (P ₂ O ₅)	31.00%
Soluble Potash (K ₂ O)	28.00%

DERIVED FROM: Potassium Hydroxide and Phosphorus Acid.

Contains:	35.7% by weight as Phosphorous Acid
	31.0% by weight as Phosphorous Acid as P ₂ O ₅
	13.5% by weight as Phosphorous Acid as P ⁻

Crystallization Point – 10°F (Will re-solubilize if shaken.)

KEEP OUT OF REACH OF CHILDREN



WARNING

Harmful if swallowed.

PRECAUTIONARY STATEMENTS

Wash thoroughly after handling.

Do not eat, drink or smoke when using this product.

FIRST AID

In all cases, call a poison control center or doctor for further treatment advice. **IF SWALLOWED:** Call poison control center or doctor if you feel unwell. Rinse mouth.

For chemical spills, leaks, fire or exposure, call CHEMTREC: (800) 424-9300.

STORAGE AND DISPOSAL

Store in a safe manner. Store in original container only and keep tightly sealed when not in use. Store product and dispose of unused product and empty containers in accordance with federal, state and local regulations.

GENERAL INFORMATION

RNA NPA 31 is a highly concentrated foliar and soil phosphite fertilizer that is compatible with most pesticides. Each gallon contains 3.96 pounds of phosphorous acid as P₂O₅ and 3.58 pounds of potassium as K₂O.

**Phosphorous acid products are intended to be used as a supplemental fertilizer treatment. Upon foliar application, the phosphite ions are taken up directly by the plant foliage and may undergo a degree of conversion to phosphate ions, or are utilized directly by the plants as phosphite ions. As a soil application to annual crops, a lesser response from the initial crop with a corresponding superior response from succeeding crops may be observed. In addition, placement close to seeds or root zones may be injurious to crops. The effect may be aggravated by a soil pH below 6.5.*

DIRECTIONS FOR USE

FOLIAR APPLICATIONS: RNA NPA 31 can be applied by air, by adding recommended rate to at least 10 gallons of water. In concentrate or dilute ground sprayers, RNA NPA 31 should not exceed 1% v/v of spray solution.

VEGETABLE CROPS: Apply 1-3 pints per acre with sufficient water for thorough coverage. **Cole Crops:** Apply at or prior to 3 to 5-true leaf stage. Apply as required several weeks apart. **Tomatoes and Peppers:** Apply 1-3 pints per acre with sufficient water for coverage, when plants are well established. Repeat the application every 10-14 days, or as needed. **CAUTION:** Certain varieties and species of vegetables (such as spinach) are highly susceptible to phytotoxicity from foliar fertilizers. To prevent phytotoxicity in fertigation applications, apply phosphite through overhead irrigation during the final ¼ inch of water.

CUCURBITS, MELONS, YAMS AND POTATOES: Apply 1-3 pints per acre with sufficient water for thorough coverage. Apply prior to each major bloom. Avoid high temperature, low humidity conditions in combination with such products as dimethoate. If in doubt, treat a small area of the field before large-scale application.

CEREAL CROPS: Apply 1-3 pints per acre with sufficient water for thorough coverage. Apply prior to bloom.

FIELD AND ROW CROPS: Apply 1-3 pints per acre with sufficient water for thorough coverage. Apply prior to bloom on crops such as cotton or within 40 days of plant's development on crops such as corn. Apply before flowering on such crops as corn or beans.

Information regarding the contents and levels of metals in this product is available on the Internet at <http://www.aapfco.org/metals.html>

DECIDUOUS TREE CROPS: Apply 1-4 pints per acre with sufficient water for thorough coverage. Apply before bloom. Repeat at petal fall. Continue applications as required.

CITRUS: Apply 1-6 pints per acre with sufficient water for thorough coverage. Apply before fall and spring new growth. Apply before bloom.

VINES (Table, Wine, Raisin or other Berries): Apply 2-3 pints per acre several weeks before bloom with sufficient water for thorough coverage. Do not overload spray mixture with other high salt fertilizers and pesticide mixtures. Apply 1-2 pints per acre with sufficient water for thorough coverage after shatter. Apply 1-2 pints per acre with sufficient water for thorough coverage several weeks before harvest.

SOIL: Apply 1-6 pints per acre with irrigation water or liquid fertilizer. Please check compatibility before large-scale use.

COMPATIBILITY

Always jar test new combinations for compatibility prior to field mixing. RNA NPA 31 is generally compatible with most pesticides. This product has a pH of 6.2 which may result in less buffer or acidifying agent being required to adjust the pH to the desired level. **Always add RNA NPA 31 to the spray tank first.** Use surfactants at rates sufficient to wet the plants. Do not use excessive rates. Do not use in combination with excessive pesticide and nutrient tank mixes, lime lignosulfonates (not compatible) or high rates of metals (sulfates, oxides or chlorides) in concentrate. Application of this product with several emulsifiable concentrates during hot, dry conditions with insufficient water may cause margin leaf burn. Under these conditions use sufficient water for thorough coverage. Applications made with this product in high concentrations and in combination with known phytotoxic materials should be avoided or test the combination on a small area prior to application on large scale. If margin burn or scarring is evident, do not use or wait for cooler temperatures.

Do not apply with products known to be phytotoxic with phosphite fertilizers such as copper products (cupric oxides, cupric hydroxides, lime-copper sulfate mixtures). When in doubt of a tank mix phytotoxicity, test a small area before large-scale spraying. **For commercial use only. Do not use in greenhouses or on ornamental crops such as flowers or shrubs.**

Conditions of Sale and Limitation of Warranty and Liability:

NOTICE: Read the entire Directions for Use and Conditions of Sale and Limitation of Warranty and Liability before buying or using this product. If the terms are not acceptable, return the product at once, unopened, and the purchase price will be refunded.

The Directions for Use of the product should be followed carefully. It is impossible to eliminate all risks inherently associated with the use of this product. Crop injury, ineffectiveness, or other unintended consequences may result because of many different factors including, without limitation, manner of use or application, weather, combination with other products, or crop conditions. All such risks shall be assumed by Buyer and User, and Buyer and User agree to hold Manufacturer and Seller harmless from any claims relating to such factors.

Seller warrants that this product conforms to the chemical description on the label. EXCEPT FOR THIS WARRANTY, THE PRODUCT IS FURNISHED "AS-IS," AND NEITHER SELLER NOR MANUFACTURER MAKES ANY OTHER WARRANTIES, EXPRESS OR IMPLIED, WITH RESPECT TO THE SELECTION, PURCHASE OR USE OF THIS PRODUCT; SELLER AND MANUFACTURER SPECIFICALLY DISCLAIM ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Buyer and User accept all risks arising from any use of this product, including without limitation uses contrary to label instructions, under abnormal conditions, or under conditions not reasonably foreseeable to (or beyond the control of) Seller or Manufacturer.

To the extent permitted by law, neither Manufacturer nor Seller shall be liable for any incidental, consequential or special damages resulting from the use or handling of this product. THE EXCLUSIVE REMEDY OF THE BUYER OR USER, AND THE EXCLUSIVE LIABILITY OF MANUFACTURER AND SELLER, FOR ANY AND ALL CLAIMS, LOSSES, INJURIES OR DAMAGES (INCLUDING CLAIMS BASED ON BREACH OF WARRANTY, CONTRACT, NEGLIGENCE, TORT, STRICT LIABILITY OR OTHERWISE) RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, SHALL BE THE RETURN OF THE PURCHASE PRICE OF THIS PRODUCT, OR, AT THE ELECTION OF MANUFACTURER OR SELLER, THE REPLACEMENT OF THE PRODUCT.

These Conditions of Sale and Limitation of Warranty and Liability shall be interpreted in accordance with the laws of the State of California, excluding its conflicts of laws rules, and may not be amended by any oral or written agreement.

K-052517

Manufactured by: RNA

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NET CONTENTS:

2.5 GALLONS (9.46 liters)

270 GALLONS (1022.06 liters)

BULK

WEIGHT PER GALLON: 12.8 POUNDS at 68°F • pH 6.2