



MONTEREY NUTRIENT-BUFFER 11-4-6

WITH CHELATED Fe-Mn-Zn and SURFACTANT

READ THIS LABEL CAREFULLY

GENERAL INFORMATION

MONTEREY NUTRIENT-BUFFER 11-4-6 supplies major and minor nutrients. MONTEREY NUTRIENT-BUFFER 11-4-6 improves plant uptake of micronutrients and efficacy of foliarly-applied pesticides by giving quick wetting for more uniform coverage. MONTEREY NUTRIENT-BUFFER 11-4-6 is an acid-based product that will acidify and buffer alkaline spray solutions, thereby reducing hydrolytic breakdown of various pesticides such as organophosphate insecticides.

DIRECTIONS FOR USE

MIXING DIRECTIONS. Fill clean spray tank 1/3 - 1/2 full with clean water. Use 1 quart MONTEREY NUTRIENT-BUFFER 11-4-6 per minimum 10 gal. of finish spray, continue filling tank and thoroughly agitate. Add pesticides after all water has been added. Follow pesticide DIRECTIONS FOR USE.

COMPATIBILITY. MONTEREY NUTRIENT-BUFFER 11-4-6 is compatible with most pesticides and fertilizers. However, if the desired combination has not been previously used, a compatibility test is recommended. When various concentrations of MONTEREY NUTRIENT-BUFFER 11-4-6 were prepared using a water at an initial pH = 8.0, the following pH values were measured:

Concentration	pH
1 qt. /10 gal.	5.0
1 qt. /50 gal.	6.0
1 qt. /100 gal.	6.2

APPLICATIONS. For foliar nutritional sprays and/or pesticide acidulation, dilute 1 quart MONTEREY NUTRIENT-BUFFER 11-4-6 in a minimum of 10 gallons of water. Use this dilution ratio for either aerial or ground applications.

Addition of urea (for example, 5 lbs. Lo-Bi Urea per 100 gal. spray solution) may enhance foliar uptake of MONTEREY NUTRIENT-BUFFER 11-4-6. For improved wetting and/or spreading of MONTEREY NUTRIENT-BUFFER 11-4-6, either NO FOAM A or MONTEREY X-100 may be used.

For row or field crops apply in no less than 20 gal. water per acre by ground and no less than 10 gal. by aircraft. Apply to fruit trees in no less than 100 gal. water/acre with conventional sprayers or no less than 45-90 gal. with concentrate sprayers. For applications through overhead sprinkler systems equipped with anti-siphon or back-check valves (to prevent contamination of water source by back flow), add the recommended amount of MONTEREY NUTRIENT-BUFFER 11-4-6 in the mix tank and inject into irrigation water.

DO NOT apply when plants are suffering from moisture or heat stress.

CAUTION: Tank mixtures of MONTEREY NUTRIENT-BUFFER 11-4-6 with copper-based products can be phytotoxic due to increased solubility of copper. Test applications to part of the crop are advisable to assess potential phytotoxicity before full scale, commercial applications. The following crops are known to be sensitive to foliar applications of copper: broccoli, cabbage, celery, cucurbits, grapes, lettuce, nectarines, peaches, pears, plums, prunes, spinach, and strawberries.

FOLIAR NUTRITIONAL SPRAYS: Use the doses recommended in the accompanying table.

PESTICIDE ACIDULATION FOR TERRESTRIAL USE SITES: Use 1-2 quarts product per 100 gallons of water to reduce the pH of alkaline waters used for pesticide applications.

GUARANTEED ANALYSIS

11 - 4 - 6

Total Nitrogen (N)	11.00%
1.0% Nitrate Nitrogen	
10.0% Urea Nitrogen	
Available Phosphoric Acid (P ₂ O ₅)	4.00%
Soluble Potash (K ₂ O)	6.00%
Iron (Fe)	0.10%
0.10% Chelated Iron	
Manganese (Mn)	0.05%
0.05% Chelated Manganese	
Zinc (Zn)	0.05%
0.05% Chelated Zinc	
Nitrogen derived from potassium nitrate and urea; Phosphate from phosphoric acid and potassium phosphate; Potash from potassium phosphate and potassium nitrate; Iron, Manganese, and Zinc from chelates of Ethylenediaminetetraacetate and Hydroxyethylthylenediaminetriacetate (EDTA and HEDTA).	

COMPOSITION AS SPRAY ADJUVANT

PRINCIPAL FUNCTIONING AGENTS*:

Phosphoric Acid and Alkyl arylalkoxy polyoxyethylene phosphate	8.15%
CONSTITUENTS INEFFECTIVE AS SPRAY ADJUVANT:	91.85%
TOTAL	100.00%

*Contains 0.81 lbs. functioning agents per gallon.

CA Reg. No. 17545-50004-AA

KEEP OUT OF REACH OF CHILDREN

CAUTION

HARMFUL IF SWALLOWED

PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals

Harmful if swallowed. Causes eye and skin irritation. In case of contact, immediately flush eyes or skin with plenty of water.

Statement of Practical Treatment

If swallowed: Drink 2 glasses of water or milk to dilute. Do not induce vomiting or give anything by mouth to an unconscious person. Get medical attention.

If in eyes or on skin: Flush with water for at least 15 minutes. Do not rub eyes. Seek medical attention immediately.

NET CONTENTS: 5 GALLONS

Wt. Per Gallon: 9.9 lbs.

**THIS PRODUCT MANUFACTURED FOR:
MONTEREY CHEMICAL COMPANY**

P.O. BOX 5317
FRESNO, CA 93755

DIRECTIONS FOR USE

FOLIAR SPRAYS	MAXIMUM RATE	REMARKS
Alfalfa	2 qts/A	Apply after each cutting
Apples, Peaches, Pears and other Tree & Nut Crops	6 qts/A	Apply pre- and post-bloom as needed.
Beans, Peas	2 qts/A	Apply with crop protection sprays. Begin 3 weeks after emergence.
Berries & Small Fruit Crops	2 qts/A	Apply at fruit set. Repeat at 2-week intervals.
Asparagus, Brussels Sprouts, Cabbage (Brassica Crops) & Carrots	2 qts/A	Apply at 7-10 day intervals. Use 2 wetting agent to insure thorough coverage.
Celery, Lettuce (Stalk & Leafy Vegetables)	1 q/A	Apply at 7-10 day intervals. Begin at the 3-4 leaf stage.
Barley, Oats, Wheat, Rye, & Rice Crops	2 qts/A	Apply 3 weeks after emergence. Repeat at 2-week intervals.
Citrus	10 qts/A	Apply as needed after 2nd true leaf unfolds.
Corn	2 qts/A	Apply as needed after 2nd true leaf unfolds.
Cotton	1 q/A	Apply just prior to bloom or with pesticide sprays.
Squash & Melons (Cucurbit Crops)	1 q/A	Apply when 2nd true leaf unfolds or with pesticide sprays.
Grapes	4 qts/A	Apply as needed or with pesticide sprays.
Tomatoes, Peppers & Potatoes	2 qts/A	Apply as needed or with pesticide sprays.
Sugarbeets	2 qts/A	Apply after 4th leaf unfolds.
Turf	4 qts	Apply in Spring. Apply dose in at least 200 gallons of water per 10,000 sq. ft.
Greenhouse Plants & Ornamentals	1 qt	Apply dose in at least 100 gallons of water.
TRANSPLANT SOLUTIONS	RATE	REMARKS
All Crops	6 fl. oz.	Add recommended dose per each 100 gallons of solution.

STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal. **Storage:** Store in original container at temperatures above 40°F. **Product Disposal:** Wastes may be disposed of on site or at an approved waste disposal facility. **Container Disposal:** Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

CONDITIONS OF SALE: 1. Seller warrants that this product consists of the ingredients specified and is reasonably fit for the purpose stated on this label when used in accordance with directions under normal conditions of use. No one, other than the Seller, is authorized to make any warranty, guarantee or direction concerning this product. 2. Because the time, place, rate of application and other conditions of use are beyond Seller's control, Seller's liability from handling, storage and use of this product is limited to replacement of product or refund of purchase price.