

PM 33

REG#1148-37

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US ENVIRONMENTAL PROTECTION AGENCY OFFICE OF PESTICIDES PROGRAMS REGISTRATION DIVISION (75-767) WASHINGTON, DC 20460  <b>NOTICE OF PESTICIDE:</b> <input checked="" type="checkbox"/> REGISTRATION <input type="checkbox"/> REREGISTRATION <i>(Under the Federal Insecticide, Fungicide,          and Rodenticide Act, as amended)</i>	EPA REGISTRATION NO. 1148-37	DATE OF ISSUANCE <b>SEP 13 1988</b>
	TERM OF ISSUANCE Conditional	
	NAME OF PESTICIDE PRODUCT Nutra Spray Zn17 1/2-Mn4-Cu 4	
NAME AND ADDRESS OF REGISTRANT (Include ZIP code)		
Leffingwell 111 South Berry Street P.O. Box 1880 Brea, CA 92621		
<p><b>NOTE:</b> Changes in labeling formula 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 U.S. EPA registration number.</p> <p>On the basis of information furnished by the registrant, the above named pesticide is hereby Registered/Reregistered under the Federal Insecticide, Fungicide, and Rodenticide Act.</p> <p>A copy of the labeling accepted in connection with this Registration/Reregistration is returned herewith.</p> <p>Registration is in no way to be construed as an indorsement or approval of this product by this 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.</p> <p>This product is conditionally registered in accordance with FIFRA section 3(c)(7)(A) provided that you:</p> <ol style="list-style-type: none"> <li>Submit/cite all data required for registration/reregistration of your product under FIFRA section 3(c)(5) when the Agency requires all registrants of similar products to submit such data.</li> <li>Make the labeling changes listed below before you release the product for shipment:           <ol style="list-style-type: none"> <li>Add the phrase "EPA Registration No. 1148-37."</li> <li>Under STORAGE AND DISPOSAL, you may delete the paragraph beginning "Pesticide wastes are acutely hazardous . . . ." We regret the error in our letter of June 17.</li> <li>For the nutrient uses, indicate when to make applications and stipulate if repeat treatments are needed.</li> <li>For the fungicide uses, indicate that higher rates are to be used when conditions favor disease incidence.</li> </ol> </li> <li>Submit the storage stability study or other basis for your statement that the product is stable greater than 3 years at room temperature.</li> </ol>		
<input type="checkbox"/> ATTACHMENT IS APPLICABLE		<div style="border: 1px solid black; padding: 5px; display: inline-block;"><b>BEST AVAILABLE COPY</b></div>
SIGNATURE OF APPROVING OFFICIAL		
		DATE

4. Submit one (1) copy of your final printed labeling before you release the product for shipment.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6(e). Your release for shipment of the product constitutes acceptance of these conditions.

A stamped copy of the label is enclosed for your records.

Richard F. Mountfort *RFM*  
Product Manager (23)  
Fungicide-Herbicide Branch  
Registration Division (TS-767C)

Enclosure

# Zn17½-Mn4-Cu4

## COMPOSITION

### Active Ingredient: (% by weight)

Basic Copper Sulfate\* ..... 7.8%

### Inert Ingredients:

Manganese (expressed as metallic equivalent.. 4.0%

Zinc (expressed as metallic equivalent..... 17.5%

Other ..... 70.7%

Total ..... 100.0%

(\* Metallic Copper Equivalent 4.0%

Manganese derived from manganese carbonate. Zinc derived from zinc oxide and basic sulfate.)

**KEEP OUT OF REACH OF CHILDREN**

**CAUTION**

### STATEMENT OF PRACTICAL TREATMENT

**IF SWALLOWED:** Drink promptly a large quantity of milk, egg whites or gelatin solution; if not available, drink large amounts of water. Avoid alcohol. Call a physician immediately.

**IF IN EYES:** Flush eyes with plenty of water for at least 15 minutes. Call a physician.

**IF ON SKIN:** Wash with plenty of water for at least 15 minutes. Call a physician if irritation persists. Remove and wash contaminated clothing before use.

**IF INHALED:** and abnormal symptoms develop, see a physician.

SEE LEFT SIDE PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENT.

ACCEPTED  
with COMMENTS  
in EPA Letter Dated:

SEP 13 1988

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

1148-37  
**NET WEIGHT 50 POUNDS (22.68 kg)**

**LEFFINGWELL**

EPA REG. NO. 1148 - GT  
EPA EST. NO. 7874-CA-1

UNIROYAL  
CHEMICAL

111 SOUTH BERRY STREET / P.O. BOX 1880, BREA, CA 92621

8/22/88

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**PRECAUTIONARY STATEMENTS  
HAZARDS TO HUMANS  
AND DOMESTIC ANIMALS  
CAUTION**

Harmful if swallowed. Avoid breathing dust. Avoid contact with skin, eyes or clothing. In case of contact immediately flush eyes or skin with plenty of water. May cause skin sensitization in certain individuals.

Keep away from domestic animals.

**ENVIRONMENTAL HAZARDS**

This pesticide is toxic to fish and aquatic organisms. Do not apply directly to water. Drift and runoff from treated areas may be hazardous to fish and aquatic organisms in adjacent aquatic sites. Do not contaminate water when disposing of equipment washwaters.

**DIRECTIONS FOR USE**

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

**STORAGE AND DISPOSAL**

STORAGE: Store product in a secure dry place and keep product dry. When opening, closing or handling open packages, or pouring product, wear goggles to prevent dusting into eyes. Spilled product should be swept up, used if clean, or disposed of on site and/or waste resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

Store product only in original container. During storage, store pesticides separately to prevent cross-contamination of other pesticides, fertilizers, food and feed.

DISPOSAL: Do not contaminate water, food, or feed by storage or disposal. Do not reuse this container. Completely empty bag into application equipment. Then dispose of empty bag in a sanitary landfill or by incineration, or if allowed by State and local authorities, by burning. If burned, stay out of smoke.

~~Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixtures, 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.~~

## REENTRY STATEMENT

Do not apply this product in such a manner as to directly or through drift expose workers or other persons. The area being treated must be vacated by unprotected persons.

Do not enter treated areas without protective clothing until sprays have dried.

Because certain states may require more restrictive reentry intervals for various crops treated with this product, consult your State Department of Agriculture for further information.

Written or oral warnings must be given to workers who are expected to be in a treated area or in an area about to be treated with this product. When oral warnings are given, warnings shall be given in a language customarily understood by workers. Oral warnings must be given if there is reason to believe that written warnings cannot be understood by workers. Written or oral warnings must include the following information.

**"CAUTION"** Area to be treated with copper sulfate on (date of application). Do not enter without appropriate protective clothing until sprays have dried. If accidentally exposed, consult the Statement of Practical Treatment portion of the pesticide label for first aid recommendations.

**NUTRA-SPRAY Zn17½-Mn4-Cu4** is a chemically reacted, neutral, spray dried wettable powder. It is recommended for the correction of zinc, manganese, and copper deficiencies in citrus, avocados, deciduous fruits, and grapes. May also be used as a copper fungicide where zinc and manganese are desired.

### USE DIRECTIONS

#### FUNGICIDE USES

##### CITRUS

Use as a preventative in late fall or when disease appears.

**Septoria:** Use 7-10 lbs. per 100 gallons. Spray the entire tree in complete coverage in late fall.

**Brown Rot:** 7-10 lbs. per 100 gals. in late fall at time of first rains. Spray skirts of trees from the ground up to 3-4 ft. high with up to 6 gals. of spray solution per tree; also spray 2-4 gals. on the trunk and ground under the tree. Apply 25-80 lbs. NUTRA-SPRAY Zn17½-Mn4-Cu4 per acre.

**CAUTION** — This product should not be used on those varieties of apples and pears that are subject to russeting during the period when they are sensitive to russet.

**SPREADERS** — When used as a fungicide, a Spreader-Sticker is recommended.

**COMPATIBILITY** — NUTRA-SPRAY Zn17½-Mn4-Cu4 is compatible with most commonly used wettable powder insecticides and fungicides. See Leffingwell compatibility chart for details.

Maintain adequate agitation at all all times.

**CHEMIGATION:** Do not apply this product through any type of irrigation system.

#### MICRONUTRIENT USES

**AVOCADOS** — Very effective for avocados where a little copper is desired. Ground Rigs — Apply at 5 lbs. to 100 gals., or 25 to 30 lbs. per acre. Air Application — 10-20 lbs. per acre in 15 gals. of water. Two applications per year over new growth for best results.

**CITRUS** — For deficiencies of Zinc, Manganese, and Copper, apply 20-40 lbs. per acre for mature trees. May be applied by conventional ground rig (use 7-10 lbs. per 100 gals.), ground concentrate sprayer, or by air.

**DECIDUOUS FRUIT, NUT TREES & ORNAMENTALS** — For deficiencies of zinc, manganese, and copper, spray over new growth with NUTRA-SPRAY Zn17½-Mn4-Cu4 at 5 to 10 lbs. per 100 gallons or 20 to 40 lbs. per acre in sufficient water to provide coverage. Where Zinc Sulphate is used as a dormant spray for plums, apricots, peaches, this spray should not be used, as defoliation may occur from excess zinc.

**GRAPES** — Spray near the bloom period with NUTRA-SPRAY Zn17½-Mn4-Cu4 at 5 to 15 lbs. per acre for zinc, manganese, and copper deficiencies. This spray aids in controlling split berries that may be caused by copper deficiency.

**TOMATOES, PEPPERS, BEANS, MELONS** — As a deficiency spray, 10-20 lbs. per acre per application in enough water to give even distribution by air or ground rig.

**IMPORTANT NOTICE** — Seller warrants that this product conforms to its chemical description and is reasonably fit for the purposes stated on the label when used in accordance with the directions and instructions specified on the label under normal conditions of use, but neither this warranty nor any other warranty of merchantability or fitness for a particular purpose, express or implied, extends to the use of this product, contrary to label instructions, or under abnormal conditions, or under conditions not reasonably foreseeable to seller, and buyer assumes the risk of any such use.