

INERT INGREDIENTS

PA 1111

PA 1111

KEEP OUT OF REACH OF CHILDREN

## CAUTION

### STATEMENT OF PRACTICAL TREATMENT

**IF SWALLOWED,** call a physician or Poison Control Center. Drink 1 or 2 glasses of water and induce vomiting by touching back of throat with finger. Do not induce vomiting or give anything by mouth to an unconscious person.

**IF ON SKIN,** wash with plenty of soap and water. Get medical attention.

**IF IN EYES,** flush eyes with plenty of water. Call a physician if irritation persists.

### PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS

## CAUTION

May cause irritation of eyes. Harmful if swallowed, inhaled, or absorbed through skin. Avoid contact with eyes, skin, or clothing. Wash thoroughly with soap and water after handling.

### ENVIRONMENTAL HAZARDS

This product is toxic to fish. Keep out of any body of water. Do not apply where runoff is likely to occur. Do not contaminate water by cleaning of equipment or disposal of wastes.

Use only by manufacturers

For use only by manufacturers obtained from the address below for providing documentation.

### STORAGE INSTRUCTIONS

Let the product will deteriorate if sparks and open flame, cross-contamination with storage or handling. See instructions listed below.

### PESTICIDE DISPOSAL INSTRUCTIONS

Then dispose of bag in authorities, by burning. If:

Pennwalt Corporation warrants that it is referred to in the Directions for Use. It is a WARRANTY OF FITNESS OR MERCHANTABILITY OR SELLER BE LIABLE FOR OR HANDLING OF THIS PRODUCT. CUSTOMERS, LABOR COST, OR OTHER. Pennwalt and seller of this product may be varied only by agreement in writing.

ACCEPTED



SEP 25 1995

Net Contents 25 Kg/55 Lbs.

Sold by

AGCHEM DIVISION—PENNWALT CORPORATION

Three Parkway  
Philadelphia, PA 19102

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#### IMALS

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use only of malting. Ifs in the formulation. fungicides. See vet. Data Sheet (WH), be  
obtained from the address below) for chemical and physical properties. Subsequent formulators are respon-  
sible for providing documentation to support registration of their product.

#### STORAGE AND DISPOSAL

**STORAGE INSTRUCTIONS:** Store in the original container in a dry area. If allowed to become  
wet the product will deteriorate and represent a fire hazard. Keep away from sources of ignition  
(e.g., sparks and open flame). Close bag when not in use. Do not store in a manner where  
cross-contamination with other pesticides, fertilizers, food or feed could occur. If spilled during  
storage or handling sweep up spillage and dispose of in accordance with the Pesticide Disposal  
Instructions listed below.

**PESTICIDE DISPOSAL INSTRUCTIONS:** Pesticide wastes are acutely hazardous. Wastes result-  
ing from the use of this product may be disposed of on site or at an approved waste disposal facility.

**CONTAINER DISPOSAL INSTRUCTIONS:** Completely empty bag into application equipment.  
Then dispose of bag in a sanitary landfill, by incineration, or if allowed by State and local  
authorities, by burning. If burned, stay out of smoke.

#### WARRANTY AND DISCLAIMER

Pennwalt Corporation warrants that this material conforms to the chemical description on the label and is reasonably fit for the purposes  
referred to in the Directions for Use, subject to the risks referred to therein. PENNWALT MAKES NO OTHER EXPRESS OR IMPLIED  
WARRANTY OF FITNESS OR MERCHANTABILITY OR ANY OTHER EXPRESS OR IMPLIED WARRANTY. IN NO CASE SHALL  
PENNWALT OR SELLER BE LIABLE FOR CONSEQUENTIAL, SPECIAL OR INDIRECT DAMAGES RESULTING FROM THE USE  
OR HANDLING OF THIS PRODUCT INCLUDING, BUT NOT LIMITED TO, LOSS OF PROFITS, BUSINESS REPUTATION, OR  
CUSTOMERS; LABOR COST; OR OTHER EXPENSES INCURRED IN PLANTING OR HARVESTING.

Pennwalt and seller offer this product and the buyer and user accept it subject to the foregoing conditions of sale and warranty which  
may be varied only by agreement in writing signed by a duly authorized representative of Pennwalt.

**Net Contents 25 Kg/55 Lbs.**

EPA Registration No. 4581-355

EPA Est. No. 33910-HL-01

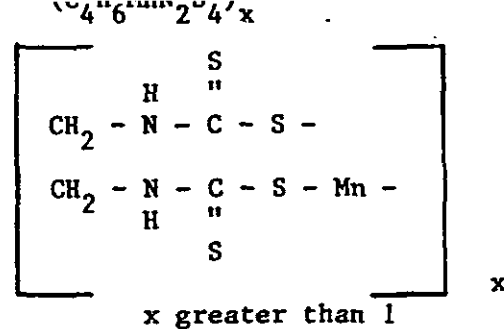
Sold by:

**EM DIVISION—PENNWALT CORPORATION**

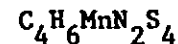
Three Parkway  
Philadelphia, PA 19102

S-NQ210-03 E5 (4-85)

F. Structural formula:



G. Molecular formula:



H. Molecular weight:

(265.3)<sub>x</sub>

## II. Product Analysis

A. Active ingredient:

Maneb

86% minimum

(equivalent to manganese metallic - 17.8%)

B. Inerts:

14%

(includes a stabilizer)

## III. Package Size

25 kg/55 lbs. packaged in polyethylene innerbags with woven polypropylene outerbags.

## IV. Physical and Chemical Properties

A. Color:

Yellow to buff

B. Physical state:

Powder

C. Odor:

Essentially odorless

(over)

- E. Bulk density: Approximately 0.45 g/ml
- F. Solubility: Water - 150 to 200 ppm.  
Polymeric. Nearly insoluble in all common solvents.
- G. Vapor pressure: Less than  $10^{-7}$  mbar at 20°C
- H. Dissociation constant: Not applicable-not soluble
- I. pH: 7to9 (aqueous dispersion)
- J. Chemical stability: Stable under cool, dry conditions. Decomposes on contact with acid. May decompose at elevated temperatures especially when water and air are present. May autoignite in presence of water and air. If on fire some gaseous products including carbon disulfide are produced.
- K. Storage stability: 2 years in the original unopened container. Material should be stored under cool, dry conditions in unopened or reclosed containers.
- L. Corrosion characteristics: Not corrosive.

#### V. Toxicity

- A. Acute oral: LD<sub>50</sub> (rat)=6750 mg/kg
- B. Acute dermal: LD<sub>50</sub> (rat)>5,000 mg/kg
- C. Acute inhalation: LC<sub>50</sub> (rat)>5.1 mg/l
- D. Primary eye irritation: No corneal involvement and distinct attenuation of irritation after 72 hours.
- E. Primary dermal irritation: Guinea pig - slight to moderate irritation after 72 hours.
- F. Dermal sensitization: Guinea pig - technical material has a clearly sensitizing effect.
- G. Fish toxicity: Carp - LC<sub>50</sub>(48hr)= 1.8 mg/l

#### VI. Analytical method:

Product analysis is by decomposition with acid and measurement of the liberated carbon disulfide, either by glc or by colorimetry of a derivative (CIPAC Handbook, 1970, 1, 463; 1980, 1A, 1293). Residues may be determined by reaction to form carbon disulfide which is measured by standard methods (G. E. Keppel J. Assoc. Off. Anal. Chem., 1969, 52, 162; 1971, 54, 528; Analyst (London), 1981, 106, 782; Pestic. Anal. Man., 1979, II).