

45728-9
16 APR 1992

Mr. Paul R. Larson
OCB Chemicals Corporation
5505-A Robin Hood Road
Norfolk, VA 23513

Dear Mr. Larson:

Subject: Terbam Technical
EPA Registration No. 45728-S
Application Dated November 7, 1991, Request to
List Culture of Mangoes

The proposed amendment to add mangoes to the list of uses that may appear on labeling of pesticide products manufactured from the subject product, submitted in connection with registration under section 3 of the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA) as amended, is acceptable provided that you:

1. Add the following precautionary statement to the front panel: "May cause allergic skin reactions".
2. Add the following statement to the environmental hazards statements on the label: "Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark".

Please note that this statement is presently required for all terrestrial use pesticides.

3. On the bulletin Terbam-87.5, delete reference to mercury compounds, pages 2 and 3.
4. Submit five (5) printed copies of the final printed labeling before releasing the product for shipment.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA, Section

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6(a). Your release for shipment of the product constitutes acceptance of these conditions.

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

Sincerely yours,

Joanne L. Miller
Product Manager (23)
Fungicide-herbicide Branch
Registration Division (A-7505C)

EWilson:Diskette #ABCI 04-06-92

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FERBAM TECHNICAL

FUNGICIDE

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

45728-8

FOR FORMULATION OF FUNGICIDES ONLY

ACTIVE INGREDIENT:

Ferbam (Ferric dimethyldithiocarbamate) 87.5%

INERT INGREDIENTS: 12.5%

Total 100.0%

KEEP OUT OF REACH OF CHILDREN

CAUTION

For Emergency Assistance: Call (804) 857-8615

READ THE ENTIRE LABEL AND USE ONLY AS DIRECTED

PRECAUTIONARY STATEMENTS:

Hazards to Humans (& Domestic Animals)

CAUTION: May cause irritation of eyes, nose, throat and skin!
Avoid breathing dust. Avoid contact with eyes, skin or clothing.

STATEMENTS OF PRACTICAL TREATMENT:

In case of contact with skin, wash with soap and water; for eyes, flush with plenty of water for 15 minutes, and get medical attention

ENVIRONMENTAL HAZARDS:

This product is toxic to fish. Do not contaminate any body of water by direct application, cleaning of equipment or disposal of wastes and containers. Do not contaminate water when disposing of equipment washwaters.

Fire hazard: Keep away from fire and sparks.

DIRECTIONS FOR USE:

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

THIS MATERIAL REQUIRES FURTHER MIXING BEFORE USE.

For use only by manufacturers in the formulation of fungicides. This product may be formulated as a crop fungicide only for use on the following: almonds, apples, apricots, blueberries, cane berries, cherries, citrus, cranberries, currants, dates, gooseberries, grapes, mangoes, nectarines, peaches, pears, plums, prunes, quinces, conifers, tobacco and ornamentals. See Technical Bulletin Ferbam-87.5 (which may be obtained from UCB) for the chemical and physical properties. Subsequent formulators are responsible for providing documentation to support registration of their product(s).

STORAGE AND DISPOSAL:

Do not contaminate water, food or feed by storage or disposal.

Storage:

Store in a cool, dry place in the original container and away from sources of ignition. Close bag when not in use.

Pesticide Disposal:

Wastes resulting from the use of this product may be disposed of on site or at any approved waste disposal facility.

Container Disposal:

Completely empty container into a sanitary landfill or by incineration or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

UCB Chemicals Corporation makes no warranty, expressed or implied, concerning the use of this product other than indicated on the label.

EPA Reg. No. 45728-8

EPA Est. 32557-BL-1



UCB Chemicals Corporation
5505-A Robin Hood Road
Norfolk, Virginia 23513

U410 1191V

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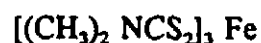
FERBAM TECHNICAL

(FERRIC DIMETHYLDITHIOCARBAMATE)

DESCRIPTION

This Technical Bulletin is directed to formulators and their personnel to provide adequate information on the product. This information should be considered the basis for development and utilization of safe and proper handling procedures. For any further information, contact UCB Chemicals Corporation.

CHEMICAL FORMULA



PHYSICAL AND CHEMICAL PROPERTIES

- Active Ingredient

Ferric dimethyldithiocarbamate (min.). 87.5%

- Physical State

Black powder

- Odor

Nil

- Melting Point

Decomposes > 180 °C

- pH (in 4% aqueous suspension)

4.93

- Solubility (in H₂O)

About nil

- Bulk Density (g/cc)

0.21

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PACKAGING

55 pounds net multi-ply paper bags (inner polyethylene ply)

CHEMICAL REACTIVITY

Ferbam is stable and non-corrosive. However, excessive heat and moisture should be avoided as should contact with strong oxidizers.

It is incompatible with copper or mercury compounds or alkaline pesticides.

FLAMMABILITY AND FIREFIGHTING

Although the product does not pose a fire risk under normal storage conditions, it should be kept away from excessively high temperatures, sparks, flames or hot surfaces. Under fire conditions, it may decompose and emit toxic fumes of nitrogen and sulfur oxides.

Use standard extinguishing media - water, carbon dioxide, dry chemicals, or foam. When there is a potential for exposure, wear a self-contained breathing apparatus in positive pressure mode. In addition, impervious clothing should be worn.

TOXICOLOGY

TOXICITY TO ANIMALS (RAT)

Ingestion: Slightly toxic. Oral LD₅₀ (rat): > 5000 mg/kg. Observed signs of toxicity were considered reversible during course of study.

Skin Contact: Dermal LD₅₀ (rabbit) : > 4000 mg/kg. Causes slight skin reddening and swelling which may persist for several days. Primary skin irritation index (rabbit) amounted to 0.02 and should be considered as practically non-irritating to the skin. A skin sensitization rate of 5% was obtained. Has been reported to cause skin sensitization in individuals sensitized to sulfur.

Inhalation: No specific information. May cause respiratory and mucous membranes irritation.

Eye Contact: Based on a Draize score of 6.3 (24-hour), the product should be classified as minimally irritating according to the scheme of Kay and Calandra. May cause conjunctival redness and chemosis which may persist for several days. No adverse effects on the cornea were noted.

Carcinogenicity: Not listed in NTP or IARC monograph or OSHA regulation.

Other Chronic Effects of Exposure: No specific information.

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HUMAN TOXICITY

Ferbam may cause irritation of eyes, nose, throat and skin.

Harmful by ingestion, inhalation, or absorption through skin.

Symptoms: Conjunctivitis, dermatitis, anorexia and nausea.

OCCUPATIONAL EXPOSURE LIMITS

ACGIHTLV: 10 mg/m³

OSHA PEL: 15 mg/m³

SAFETY MEASURES, FIRST AID

- Wear rubber, gloves, inhalation mask, safety glasses, and coverall.
- Provide adequate ventilation.
- Keep out of reach of children and away from food, drink, and animal feeding stuffs.
- Wash face and hands thoroughly after handling.
- In case of contact with eyes, rinse immediately with plenty of water and contact a physician.
- Store in a cool dry place, away from sparks or open flame.

COMPATIBILITY

Ferbam is compatible with most common insecticides, but is incompatible with copper or mercury compounds or alkaline pesticides.

APPLICATIONS - IMPORTANT

For use only by manufacturers in the formulation of fungicides.

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Consult with UCB or the Environmental Protection Agency to obtain information on currently registered uses for Ferbam as they are subject to change.

Failure to properly register with the Environmental Protection Agency any product formulated with this pesticide is a violation of the Federal Insecticide, Fungicide and Rodenticide Act

Subsequent formulators are responsible for providing documentation to support registration of their product(s).