

AUG 16 1995

Vinings Industries, Inc.
3950 Cumberland Parkway
Atlanta, GA 30339

Attention: R.V. Hinton

Subject: Thionate
EPA Registration No. 9386-12
Amendment Dated March 21, 1995

The amendment referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, to revise your "Environmental Hazard" statement as per PR Notice 93-10, is acceptable, provided that you make the labeling changes listed below before you release the product for shipment bearing the amended label.

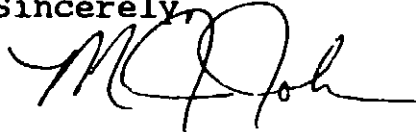
1. Revise the statement "Drink promptly a large quantity of milk, egg whites, or gelatin solution or if these are not available, 1 or 2 glasses of water" to read "Drink promptly 1 or 2 glasses of water".
2. On the front panel of your label, the word "poison" must appear in red and the "Skull and Crossbones" must appear in immediate proximity to the word poison.
3. Delete the statement "Measures against circulatory shock, respiratory depression and convulsion may be needed".
4. On the technical bulletin, change the percentage of the active ingredient to reflect the same as on the product label. Also, all required labeling statements must appear on the technical bulletin.

| CONCURRENCES | | | | | | | |
|--------------|--|--|--|--|--|--|--|
| SYMBOL | | | | | | | |
| SURNAME | | | | | | | |
| DATE | | | | | | | |

A stamped copy of the labeling is enclosed for your records. Submit one (1) copy of the final printed label and technical bulletin prior to release of the product for shipment.

If you have any questions concerning this letter, please contact Martha Terry at (703) 305-6982.

Sincerely,



Marion J. Johnson, Jr.
Product Manager (31)
Antimicrobial Program Branch
Registration Division (7505C)

Enclosure

TECHNICAL DATA

THIONATE®

Intermediate For Technical Grade Manufacturing Use Methylene bis (thiocyanate)

DESCRIPTION:

Vinings' THIONATE® is a pure crystal form of methylene bis(thiocyanate), technical grade.

THIONATE®, as delivered, is not to be used as a pesticide. It is intended for use in the formulating and compounding of pesticidal agents.

Vinings markets THIONATE® solely as an industrial technical grade organic intermediate and as such, formulators are responsible for providing data to support the registration for their formulated products.

COMPOSITION:

Active Ingredient: Methylene bis(thiocyanate)
Inert Ingredients:
TOTAL

99%
1%
100%

ACCEPTED
with COMMENTS
in EPA Letter Dated:

TYPICAL PROPERTIES:

Appearance: Yellow to light orange granular solid
Solubility: Water-0.5%, Dimethyl Formamide-44%; Acetone-29%
Dioxane-24%
Melting Point: 101° to 105°C
Percent Active: 99.0% minimum

AUG 16 1995
Under the Fungicide, and Rodenticide Act as amended, for the pesticide registered under EPA Reg. No. 9386-12

DIRECTIONS FOR USE:

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

In as much as each formulator has his own specific procedure and desired concentration in compounding his pesticidal agents, no specific concentration recommendation can be given. It should be understood, each formulator or compounder using THIONATE® must provide data to support the registration for his formulated and/or compounded pesticidal agent.

The services of Vinings' engineers are available, upon request, at any time to assist in solving problems.

SOME SUGGESTED CONCENTRATIONS OF METHYLENE BIS(THIOCYANATE) ALREADY USED INDUSTRIALLY FOR:

A) Pulp and Paper Mills - Fungi and Bacteria:

1) Use 0.1 to 1.1 pounds of a 5.0% liquid concentrate per ton of pulp or paper produced, dry basis. Add directly to system on a continuous basis.

2) Use 0.0001 to 0.5 pounds of a 10.0% liquid concentrate per ton of pulp or paper produced, dry basis. Add directly to system on a continuous basis.

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- B) Recirculating Cooling Water Systems (cooling towers, evaporative condensers) Bacteria and Fungi: continuous or intermittent slug treatment on to three times a week or as required to maintain control. For badly fouled systems or systems in jeopardy of becoming affected, use 4.5 to 9.8 ppm actual of a 5.0% or 10.0% liquid concentrate daily or as required to obtain control apply at a point in the system where uniform mixing and even distribution will occur, such as the cooling tower basin or sump. LIMITS: Do not apply to domestic or potable water systems.
- C) Secondary Oil Recovery - fungi: Use 0.8 to 6.2 ppm actual of a 5.0% liquid concentrate. Apply as a slug treatment once or twice per day.
- D) Solutions, Emulsions and Other Non-Food Liquid Products - fungi: use 10.0 ppm actual 5.0% liquid concentrate based on weight of the liquid product to be preserved.

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LIMITS: Do not use in products intended for the manufacture of food packaging materials.

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

STORAGE AND DISPOSAL:
DO NOT CONTAMINATE WATER, FOOD, OR FEED
BY STORAGE OR DISPOSAL

9386-0

STORAGE: Protect from freezing and temperatures in excess of 140°F. Keep container closed when not in use. If contents are spilled or leaked due to container damage, collect liquid with absorbent material and dispose of in accordance with local, state and federal pesticide disposal regulations.

PESTICIDE DISPOSAL: Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture, 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.

CONTAINER DISPOSAL: Fiber Drums with Liners - Completely empty liner by shaking and tapping sides and bottom to loosen clinging particles. Empty residue into application equipment. Then dispose of liner in a sanitary landfill or by incineration if allowed by state and local authorities. If drum is contaminated and cannot be reused, dispose of in the same manner.

PRECAUTIONARY STATEMENTS:
HAZARD TO HUMANS AND DOMESTIC ANIMALS

DANGER: KEEP OUT OF THE REACH OF CHILDREN. Methylene bis(thiocyanate) is harmful or fatal if swallowed or absorbed through skin. Causes eye damage and skin irritation. Do not get on skin, in eyes or on clothing. Remove contaminated clothing and immediately wash skin with soap and water. If irritation persists, get medical attention. Wash contaminated clothing before re-use.

In case of contact with eyes, immediately flush with water and get medical attention. Wash thoroughly after handling. Wear goggles or face shield and rubber gloves when handling.

ENVIRONMENTAL HAZARDS:

This pesticide is toxic to wildlife and fish.. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans, or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority For guidance contact your State Water Board or Regional Office of the EPA.

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FOOD AND DRUG REGULATIONS:

The ingredients in THIONATE® are cleared by the United States Food and Drug Administration for use in the manufacture of pulp and paper to be used for food packaging in accordance with 21 CFR 176.300.

SHIPPING POINT:

Marietta, Georgia

PACKAGING:

200 lb fiber drums

ACCEPTED
with COMMENTS
in EPA Letter Dated:

AUG 16 1995

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

9386-12

:gmh
Form: THIONATE.TDS
Date: 03/95
Revision: 2

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DIRECTIONS FOR USE:

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

THIONATE® is a Fungicide and Bactericide for formulating use only. THIONATE®, as delivered, is not to be used as a pesticide. THIONATE® is intended for use in formulating and compounding only.

Vinings Industries markets THIONATE® solely as an industrial technical grade organic intermediate and as such formulators are responsible for providing data to support the registration for their formulated products.

For further information on THIONATE®, see the Technical Data Sheet.

THIONA

TECHNICAL GRADE

Active Ingredient:

methylene bis(thiocyanate)

Inert Ingredients:

TOTAL

KEEP OUT OF REACH OF

DANGER

STATEMENT OF PRACTICAL TI

External: In case of contact, immediately flush eyes or skin 15 minutes. For eyes, call a physician. Remove clothing before reuse.

Internal: If swallowed, drink promptly a large quantity of water or if these are not available, drink milk. Avoid alcohol. Call a physician immediately. In case of severe exposure, remove from contaminated area.

Note to Physician: Probable mucosal damage may occur. Measures against circulatory shock, respiratory distress, and shock may be needed.

SEE SIDE PANEL FOR ADDITIONAL PRECAUTIONS

EPA REGISTRATION No. 9386-12 EPA ESTABLISHED

MANUFACTURED BY

VININGS INDUSTRIES

MARIETTA, GEORGIA

with COMMENTS in EPA Letter Dated:

MAY 16 1975

Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, for the pesticide registered under EPA Reg. No. 9386-12

BEST COPY AVAILABLE

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THIONATE®

TECHNICAL GRADE

PRECAUTIONARY STATEMENTS:

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

DANGER. Poisonous if swallowed, inhaled or absorbed through the skin. Do not breathe vapor (dust or spray mist). Do not get in eyes, on skin or on clothing.

CORROSIVE. Causes eye and skin damage (or skin irritation). Do not get in eyes, on skin or on clothing. Wear goggles or face shield and rubber gloves when handling. Harmful or fatal if swallowed.

ENVIRONMENTAL HAZARDS: This pesticide is toxic to fish. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA.

STORAGE AND DISPOSAL:

DO NOT CONTAMINATE WATER, FOOD OR FEED BY STORAGE OR DISPOSAL

STORAGE: Protect from temperatures in excess of 140°F. Keep container closed when not in use. If contents are spilled or leaked due to container damage, collect and dispose of in accordance with local, state and federal disposal regulations.

PESTICIDE DISPOSAL: Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label directions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

CONTAINER DISPOSAL: Fiber Drums with Liners: Completely empty liner by shaking and tapping sides and bottom to loosen clinging particles. Empty residue into application equipment. Then dispose of liner in a sanitary landfill or by incineration, if allowed by state and local authorities. If drum is contaminated and cannot be reused, dispose of in the same manner.

03/21/95

52 LBS/PER CUBIC FOOT
NET CONTENTS: 110 LBS

| | | |
|--------------|----------------------------|--------|
| Ingredient: | | |
| | methylene bis(thiocyanate) | 98.0% |
| Ingredients: | | 2.0% |
| | TOTAL | 100.0% |

KEEP OUT OF REACH OF CHILDREN

DANGER

STATEMENT OF PRACTICAL TREATMENT

1. In case of contact, immediately flush eyes or skin with plenty of water for at least 15 minutes. For eyes, call a physician. Remove and wash contaminated clothing before reuse.

2. If swallowed, drink promptly a large quantity of milk, egg whites, gelatin solution or if these are not available, drink large quantities of water. Induce vomiting. Avoid alcohol. Call a physician immediately. In the event of inhalation, remove from contaminated area. Consult a doctor in cases of severe exposure.

3. Physician: Probable mucosal damage may contraindicate the use of gastric lavage. Measures against circulatory shock, respiratory depression and convulsion may be needed.

SEE SIDE PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS

REGISTRATION No. 9386-12 EPA ESTABLISHMENT No. 9386-GA-1

MANUFACTURED BY

VININGS INDUSTRIES, INC.

MARIETTA, GEORGIA 30062

with COMMENTS
in EPA Letter Dated:

AUG 16 1995

Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, for the pesticide registered under EPA Reg. No. 9386-12

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