



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

WASHINGTON, D.C. 20460

JUN 29 2001

OFFICE OF
PREVENTION, PESTICIDES
AND TOXIC SUBSTANCES

Olivia Laird, Agent
501 South Lincoln Avenue
Sterling, VA. 20164-2024

SUBJECT: April 3, 2001
Ultra-Fresh NM-100
EPA Registration 10466-38

Dear Ms. Laird:

The labeling referred to in the subject heading above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act, as amended, is accepted with conditions cited below.

1. Delete the heading "Statement of Practical Treatment" which has been replaced by the words First Aid. Please make words First Aid bold.
2. Move the "If Swallowed" row to the top as the first row in the First Aid box.
3. You may delete the second sentence in the Note to Physician "measures against circulatory shock, respiratory depression and convulsion may be needed."
4. On page 2 of the Technical Data Sheet, revise the second sentence under PRECAUTIONS to read: "In case of contact with clothes, remove and launder contaminated clothing separately before reuse."

If you have any questions regarding this letter, please contact Tom Luminello of my staff at (703) 308-8075.

Sincerely yours,

A handwritten signature in cursive script, appearing to read "R. Brennis".

Robert S. Brennis
Product Manager (32)
Regulatory Management Branch II
Antimicrobial Division (7510-C)

Ultra-Fresh* NM-100

DIRECTIONS FOR USE

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

For Manufacturing Use Only. For formulation only into end-use products which are intended to treat the article itself. *Ultra-Fresh* NM-100* is only to be used as an additive for compounding resin formulations including acrylic modified polyesters for flat stock, counters walls, sinks and systems including polyethylene used in the manufacture of sleeve for buried conduits (pipe).

Please consult the respective Product Information Sheet for application parameters.

ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish and aquatic organisms. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans, or other waters unless in accordance with 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.

E.P.A. Reg. No. 10466-38
E.P.A. Est. 34310-RI-01

BACTERIOSTAT

ACTIVE INGREDIENTS

5-chloro-2-(2,4-dichlorophenoxy)phenol 99.0 %

INERT INGREDIENTS..... 1.0 %

KEEP OUT OF REACH OF CHILDREN CAUTION

PRECAUTIONARY STATEMENT:

Hazard to humans and domestic animals. Harmful if swallowed. Avoid contact with eyes, skin or clothing.

~~STATEMENT OF PRACTICAL TREATMENT:~~ delete

FIRST AID — make bold

If on skin or clothing	<ul style="list-style-type: none"> • Take off contaminated clothing. • Rinse skin immediately with plenty of water for 15-20 minutes. • Call a poison control center or doctor for treatment.
If in eyes	<ul style="list-style-type: none"> • Hold eye open and rinse slowly and gently with water for 15-20 minutes. • Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. • Call a poison control center or doctor for treatment advice.
If swallowed	<ul style="list-style-type: none"> • Call poison control center or <i>doctor</i> immediately for treatment advice. • Have person sip a glass of water if able to swallow.* • Do not induce vomiting unless told to do so by the poison control center or doctor. • Do not give anything by mouth to an unconscious person.

NOTE TO PHYSICIAN: Probable mucosal damage may contraindicate the use of gastric lavage. ~~Measures against circulatory shock, respiratory depression and convulsion may be needed.~~

For product information call, 1-800-576-9872, Monday through Friday, 9 am to 4 pm ET. After 5 pm call your poison control center.

*Ultra-Fresh** is a registered trademark of Thomson Research Associates

Manufactured for: Thomson Research Associates
95 King Street East, Suite 400
Toronto, Ontario M5C 1G4

not necessary

STORAGE AND DISPOSAL

Prohibitions: Do not store or transport in unlined metal containers. Do not contaminate with strong oxidizing or reducing agents. Do not contaminate water, food or feed by storage or disposal or cleaning of equipment.

Pesticide Disposal: Pesticides are acutely hazardous. Improper disposal of excess pesticide 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

Metal Containers: Triple rinse (or equivalent). Then offer for recycling or reconditioning or puncture and dispose of in a sanitary landfill, or by other approved state and local procedures.

Plastic containers: Triple rinse (or equivalent). Then offer for recycling or reconditioning or puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

General: Consult Federal, state, or local disposal authorities for approved ~~alternative~~ procedures.

APPROVED
with COMMENTS
In EPA Letter Dated:

JUN 29 2001

Net Contents: 2001 lbs.

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

05/23/01

10466-38

Manufactured for: Thomson Research Associates
95 King Street East, Suite 400
Toronto, Ontario
M5C 1G4

Ultra-Fresh[®] is a registered trademark of Thomson Research Associates

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General: Consult Federal, state, or local disposal authorities for approved alternative procedures.

Net Contents: U.S. Gallons

03/28/01

ACCEPTED
with COMMENTS
in EPA Letter Dated:

JUN 29 2001

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

10466-38

395

TECHNICAL DATA SHEET

*Ultra-Fresh** NM-100

E.P.A. Registration No. 10466-38
For use in the United States of America

PRODUCT DESCRIPTION

*Ultra-Fresh** NM-100 is a finely divided crystalline white powder designed to confer durable bacteriostatic properties to polymeric systems, and synthetic foams by inhibiting the growth of bacteria, and preventing the growth of bacteria leading to microbiologically induced corrosion of buried conduits (pipe). For manufacturing use only. For formulation only into end-use products which are intended to treat the article itself.

*Ultra-Fresh** NM-100 can be incorporated into polymeric systems at the pre-extrusion stage in the manufacturing process through the use of a resin pellet concentrate (5% - 10% *Ultra-Fresh** NM-100). This product, when used according to recommendations, will last the lifetime of the product. Polymeric systems include all grades of polyolefins (polyethylenes, polypropylenes and polyolefin copolymers such as ethylene vinyl acetate, TPO's and TPR's (thermoplastic rubber)) and all styrenic thermoplastics such as polystyrene, ABS (acrylonitrile-butadiene styrene) and SAN (styrene acrylonitrile).

PHYSICAL PROPERTIES

Melting Point.....	56-58C / 133-136F
Freezing Point.....	not applicable
Ionic Nature.....	non-ionic
Decomposition Temperature.....	>280C / >536F
Vapor Pressure.....	2.0 x 10 ⁻⁷ mm Hg

ACCEPTED
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in EPA Letter Dated:

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10466-38

TOXICITY

Acute Oral LD ₅₀ (rats).....	>5,000 mg/kg
Skin Irritation (rabbits).....	Irritant
Eye Irritation (rabbits).....	Irritant

APPLICATION PROCEDURES

1. Polymeric Systems

*Ultra-Fresh** NM-100 will inhibit the growth of microorganisms in polymeric systems. These include synthetic fibers (Polypropylene, Nylon, Acetate, Polyester, Rayon, Polyethylene fibers and blends of these fibers with natural fibers) molded plastics, and synthetic foams. An application of 0.05 to 0.3% based on weight of finished product is recommended. *Ultra-Fresh** NM-100 should be applied by adding the resin pellet concentrate to the bulk resin pellets before extrusion.

2. Coated Textiles

Textiles coated or laminated with polyvinyl chloride (PVC) or polyurethane (PUR), for use as mattress tickings, pillow tickings, curtains, covers and related articles for use in bio-burdened environments can be treated with *Ultra-Fresh** NM-100 at levels of 0.05% to 0.3% based on the weight of finished goods.

3. Polyethylene Sleeves For Buried Conduits

Low density polyethylene films treated with *Ultra-Fresh** NM-100 at levels up to 2% (based on the weight of the film) used in the inner layer and co-extruded or laminated with a polyethylene high density middle layer

3 6 5

film and a polyethylene low, linear low, medium, or high density outer layer film forming a sleeve for buried conduits that conforms with minimum physical characteristics specified in ANSI/AWWA Standard C105/A21.5-99. See the product information sheet for Polyethylene Sleeves for Buried Conduit.

- 4. For more details of application, please consult the Product Information Sheet on end-uses.

PRECAUTIONS

Ultra-Fresh* NM-100 should be handled with care and common sense that should be accorded to all biologically active chemicals. ~~In case of contact, remove and launder contaminated clothing before reuse.~~ Consult Material Safety Data Sheet for more information.

*revise
per letter*

NOTICE

The technical information and suggestions for use made herein are based on TRA's research and experience and are believed to be reliable, but such information and suggestions do not constitute a warranty, and no patent liability can be assumed. Since TRA has no control over the conditions under which this product is transported, stored, handled, used or applied, it is TRA's intent that its liability on any basis be limited to the price of the product used.

RECEIVED
 TECHNICAL SERVICES
 WATER RESEARCH
 JUN 29 2001
 Under
 Future
 Telephone
 TRA Reg. No.
 10466-38