

10466-38

10-24-2000

4/6



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

WASHINGTON, D.C. 20460

OCT 24 2000

OFFICE OF  
PREVENTION, PESTICIDES  
AND TOXIC SUBSTANCES

Olivia D. Laird, Agent  
Thomson Research Associates  
501 South Lincoln Avenue  
Sterling, VA. 20164-2024

SUBJECT: July 28, 2000  
Ultra-Fresh NM-100  
EPA Registration 10466-38

Dear Ms. Laird:

The labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, is acceptable provided that you add the following statement after "For Manufacturing Use Only" to the label and Technical Data Sheet:

For formulation only into end-use products which are intended to treat the article itself.

A stamped copy is enclosed for your records. If you have any questions regarding this letter, please call Tom Luminello (703) 308-8075.

Sincerely yours,

A handwritten signature in black ink that reads "Tom Luminello for".

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

# Ultra-Fresh\* NM-100

## BACTERIOSTAT

### ACTIVE INGREDIENTS

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

INERT INGREDIENTS ..... 1.0 %

### DIRECTIONS FOR USE

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

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 and sinks. For Manufacturing Use Only.

\* For Formulation ... to treat ...  
Please consult the respective Product Information Sheet for application parameters.

### 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 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.

## 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:

In case of contact immediately flush eyes or skin with plenty of water for at least 15 minutes and call a physician. Wash skin with soap and plenty of water. Remove and wash contaminated clothing before reuse. IF SWALLOWED: Call a physician or Poison Control Center. Drink promptly a large quantity of milk, egg whites, gelatin solution, or if these are not available, drink large quantities of water. Avoid alcohol. IF IN EYES: Flush eyes with plenty of water. Call a physician if irritation persists. IF ON SKIN: Wash with plenty of soap and water. Get medical attention if irritation persists.

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

### 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.**

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

with COMMENTS  
in EPA Letter Dated:

OCT 24 2000

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

10466-38

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2/10

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

# 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. For manufacturing use only.

*Products which are intended to treat the article itself. Add: For formulation only into end-use*

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  
Freezing Point .....not applicable  
Ionic Nature .....non-ionic  
Decomposition Temperature.....>280C  
Vapor Pressure .....2.0 x 10<sup>-7</sup> mm Hg

### TOXICITY

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

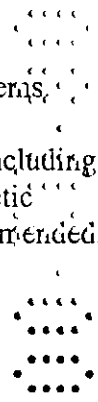
### APPLICATION PROCEDURES

#### 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 (including acrylic modified polyesters used for flat stock, counters, walls and sinks), and synthetic foams. An application of 0.05 to 0.3% based on weight of finished product is recommended.

ACCEPTED  
With COMMENTS  
in EPA Letter Dated:  
OCT 24 2000

Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, for the pesticide registered under FIFRA 10466-38



4/6

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. 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 good industrial hygienic practices 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.

ACCEPTED  
with COMMENTS  
in EPA Letter Decision

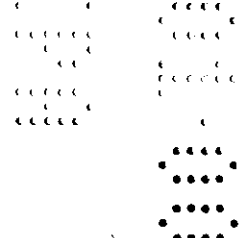
OCT 24 2000

Under the Federal Insecticide,  
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registered under FIFRA section 24(c).

10466-38

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.



# PRODUCT INFORMATION SHEET

## Ultra-Fresh<sup>®</sup> NM-100

E.P.A. Reg. No. 10466-38

### BACTERIOSTATIC AGENT FOR POLYMERIC SYSTEMS

Ultra-Fresh<sup>®</sup> NM-100 treated polymeric systems\* are preserved by the bacteriostatic action imparted to their surfaces. Microbial contamination of polymeric systems may result in discoloration and deterioration. Ultra-Fresh<sup>®</sup> NM-100 treatment in the polymeric system inhibits the growth of micro-organisms to aid in the control of these effects.

Ultra-Fresh<sup>®</sup> NM-100 is incorporated into the matrix of the polymeric system. Bacteriostatic action is exhibited on contact.

To provide preservation for many types of polymeric systems against a wide variety of bacteria. Polymeric systems with Ultra-Fresh<sup>®</sup> NM-100 agent

- (1) Inhibits the growth of bacteria to ensure lasting protection for the treated articles
- (2) Resists deterioration, discoloration and degradation caused by bacteria on the treated articles
- (3) Inhibits the growth of bacteria to prolong the life of the treated articles
- (4) Provides a durable, non-leachable antimicrobial treatment
- (5) Provides built-in resistance to the growth of odor causing bacteria in the treated articles

\* 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 but not limited to polystyrene, ABS (acrylonitrile-butadiene styrene), polyesters (including acrylic modified) and san (styrene acrylonitrile).

ACCEPTED  
with COMMENTS  
in EPA Letter List  
OCT 24 2000

#### NOTICE

The information and data contained herein are based on information we believe reliable. You should thoroughly test any application and independently conclude satisfactory performance before commercialization. Suggestions of uses should not be taken as inducements to infringe any particular patent.

Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, for the pesticide, 10466-38

July 7, 2000

6/6

# END-USE PRODUCTS

## Ultra-Fresh<sup>®</sup> NM-100

EPA # 10466-38

- Agricultural & mulch films
- Awnings (indoor & outdoor)
- Blankets
- Brushes & Brooms
- Combs & brushes
- Containers for cosmetics
- Containers, Storage for clothing, instruments, electronics, food and condiments
- Conveyor Belts
- Counter and table tops
- Cubicle Curtains
- Cutting boards
- Currency
- Door Knobs
- Exercise equipment
- Flat stock
- Floor coverings (wax, sealers, and coatings)
- Flooring (concrete, epoxy, component fibers & coatings)
- Floral containers
- Food distribution carts
- Furniture coverings
- Garbage bags
- Garbage cans
- Garment bags
- Grout
- Gym equipment
- Hairbrushes
- Mats (Door & Floor)
- Metallic coatings
- Mop buckets
- Mops & mop components
- Paper mulch
- Paper & Paperboard products
- Personal cards (credit cards, Drivers' license, etc.)
- Playground equipment & furniture
- Shower Curtains
- Silage wraps
- Sinks
- Tiles (wall & floor)
- Toilet flush handles
- Toilet seats
- Toilets & urinals
- Toilets, portable
- Tooth brush bristles
- Tooth brush handles
- Toys
- Trash can liners
- Tray liners
- Trays (medical & dental)
- Trays (food service)
- X-ray holders
- Wall coverings
- Wheels for medical carts
- Window Curtains & draperies

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