

10466-27

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

WASHINGTON, D.C. 20460

OFFICE OF
PREVENTION, PESTICIDES
AND TOXIC SUBSTANCES

APR 13 2004

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

SUBJECT: October 17, 2003 and January 24, 2004 Applications for Amendment
Ultra-Fresh NM
EPA Registration 10466-27

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 with the following condition. Under Directions for Use on the label change the application rate to textiles from 1 - 4 % to 2 - 5 % as previously approved. A copy of your stamped label and the Technical Data Sheet are enclosed.

If you have any questions regarding this letter, please call Tom Luminello (703) 308-8075.

Sincerely yours,

A handwritten signature in black ink, appearing to read "Emily H. Mitchell".

Emily H. Mitchell
Acting Product Manager (32)
Regulatory Management Branch II
Antimicrobial Division (7510-C)

Enclosure

Ultra-Fresh*

TECHNICAL DATA SHEET

Ultra-Fresh* NM

E.P.A. Registration No. 10466-27

Product Description

Ultra-Fresh* NM is an aqueous emulsion designed to confer durable bacteriostatic properties to cotton, wool and synthetic textile fabrics such as fabrics used in apparel, domestics and household goods by inhibiting the growth of odor-causing bacteria.

Ultra-Fresh* NM can be applied from the pad, by exhaustion either alone or together with softeners, and can be co-applied with dyestuffs. This product, when applied according to recommendations, will provide a durable treatment on washable fabrics when subject to conventional launderings.

Ultra-Fresh* NM is also used to protect pigment press cakes and dispersions and/or inks made from press cakes from the growth of bacteria. Ultra-Fresh* NM, in pigments and inks, should be applied at levels ranging from 0.30% to 5.0% (w/w).

Physical Properties

- Boiling Point82C / 180F
- Freezing Point-6C / 21F
- Specific Gravity at 25C / 77F0.99
- Viscosity at 25C / 77F.....7.89 cs

ACCEPTED
with COMMENTS
in EPA Letter Dated:

APR 13 2004

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

10466-27

Toxicity of Ultra-Fresh* NM Liquid Product

- Acute Oral LD₅₀ (rats).....>2,000 mg/kg
- Skin Irritation (rabbits).....Draize method score = 0
- Eye Irritation (rabbits).....Draize method score = 0

APPLICATION PROCEDURES

1. Textiles

Ultra-Fresh* NM will inhibit the growth of odor causing bacteria on textile surfaces. These include hosiery, nurses' uniforms, laboratory coats, intimate apparel, surgical and examination gowns, scrub suits, wall coverings, upholstery fabric, drapery fabric, blankets, cubicle curtains, mattress pads and covers, sheets and pillow covers, mattress filling materials, pillow filling fibers and air filters.

3 8 4

An application of 2.0 to 5.0% based on fabric weight and durability requirements is recommended. It is recommended that all fabrics be scoured prior to treatment with *Ultra-Fresh* NM*. *Ultra-Fresh* NM* can be applied from the pad bath, and liquor temperature has no effect on fabric pick-up of the product.

Exhaustion should be done for 10-15 minutes at temperatures ranging from 100-120F (38-49C).

No changes are required in existing procedures, e.g. for softener application, when adding *Ultra-Fresh* NM*.

Ultra-Fresh NM* can be added to the dyestuffs and auxiliaries used in all normal textile dyeing, and will confer durable bacteriostatic activity to the finished, dyed goods with no changes in dyeing procedure being required.

2. Polyester

Due to reduced substantivity, 100% polyester fibers need special application procedures to ensure durability. Please consult the corresponding Product Information Sheet for more details. Blends of polyester can be treated as per above general instructions.

3. Pigment Presscakes, Dispersions, Inks

Add 0.30% to 5.0% *Ultra-Fresh* NM*, with thorough mixing, to an appropriate stage in manufacturing to confer resistance to bacterial growth in pigment presscakes, dispersions and inks.

4. Polymeric Systems

Foams, latex and polyurethane gloves are also preserved by incorporating *Ultra-Fresh* NM* into their polymeric matrices. Application levels of 2.0 - 5.0% based on dry polymer weight is recommended.

5. Synthetic & Cellulosic Sponges

Ultra-Fresh NM* should be used at 1.5 - 3.0% on the weight of goods (o.w.g.). For additional antifungal protection, *Ultra-Fresh* DM-50* can be added at the rate of 0.15 - 0.3% o.w.g.

PRECAUTIONS

Ultra-Fresh NM* 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.

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.

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

ACCEPTED
WITH COMMENTS
In EPA Letter Dated:

APR 13 2004

10466 27

Ultra-Fresh* NM

BACTERIOSTAT

DIRECTIONS FOR USE

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

Ultra-Fresh* NM is an additive designed for application to textiles at 1-4% on weight of goods to inhibit the growth of odor-causing bacteria on these surfaces.

Ultra-Fresh* NM has been demonstrated to provide a durable treatment on washable fabrics when subjected to conventional launderings.

Ultra-Fresh* NM can be used to treat carpets, latexes, air filters, and synthetic, cellulosic sponges, woven and non-woven general purpose cleaning cloths, pigment presscakes, dispersions, inks and adhesives. Do not use this product in food grade adhesives or inks.

Use Ultra-Fresh* NM for formulation only into end-use products that are intended to treat the article itself. Please consult the Technical Data 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.

ACTIVE INGREDIENT

5-chloro-2-(2,4-dichlorophenoxy)phenol..... 3.0%

INERT INGREDIENTS..... 97.0%

Total..... 100.0%

KEEP OUT OF REACH OF CHILDREN CAUTION

PRECAUTIONARY STATEMENTS:

Hazard to humans and domestic animals. Harmful if swallowed. Causes moderate eye irritation. Avoid contact with eyes or clothing. Wash thoroughly with soap and water after handling.

FIRST AID

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 poison control center or doctor for treatment advice.
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.
If Swallowed	<ul style="list-style-type: none"> Call a poison control center or doctor 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 a poison control center or doctor. Do not give anything by mouth to an unconscious person.

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. For medical emergencies call your local poison control center.

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in EPA Notice Dated:

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amended, for registration,
registered under EPA Reg. No.

10466-27

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 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 in 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, Canada
M5C 1G4

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

Net Contents:

US Gallons

EPA Reg. No. 10466-27
EPA Est. 34310-RI-01
70653-TX-001

02/001