



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

WASHINGTON, D.C. 20460

JAN 17 2002

OFFICE OF
PREVENTION, PESTICIDES
AND TOXIC SUBSTANCES

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

SUBJECT: November 20, 2001 Amendment
Ultra-Fresh NM
EPA Registration 10466-27

Dear Ms. Laird:

The amendment application cited above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended, is acceptable with the conditions listed below:

The technical data sheet must be stripped of the tables listing target **Organism(s)** and **Minimum Concentration (ppm) Required for Complete Inhibition Required for Complete Inhibition of Growth**. The organisms that have been listed are of a public health concern and cannot be disqualified by a denial of a public health claim. Therefore, the paragraph preceding the table must also be removed.

A stamped copy of the labeling accepted with conditions is enclosed. The technical data sheet has also been stamped as part of this product's accepted labeling. Submit two (2) copies of your final printed labeling. Would you also please provide a copy of your CSF because the Agency has misplaced its copy. 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 black ink, appearing to read "R. S. Brennis".

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

Enclosures

Ultra-Fresh* NM

BACTERIOSTAT

ACTIVE INGREDIENTS

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

INERT INGREDIENTS..... 97.0 %

TOTAL..... 100.0%

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.

FIRST AID

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 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 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. For medical emergencies during all other times call your local 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

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.

E.P.A. Reg. No. 10466-27
E.P.A. ACCEPTED 34310-RI-01
with COMMENTS 70653-TX-001
in EPA Letter Dated:

Net Contents: JAN 17 2002
105.

Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, for the pesticide, registered under EPA Reg. No. 10466-27
11/20/01

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 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. 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.

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 Point 82C / 180F
Freezing Point -6C / 21F
Specific Gravity at 25C / 77F 0.99
Viscosity at 25C / 77F 7.89 cs

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Table
not acceptable
implies
public
health

Bacteriostatic/Fungistatic Activity

The following table lists the minimum concentrations of *Ultra-Fresh*^{*} NM, dispersed in aqueous media, required to inhibit growth of various microorganisms in test tube cultures. This table is intended to provide an indication of the broad spectrum activity of *Ultra-Fresh*^{*} NM in aqueous solution. No public health claims are made or implied by this table. Neither is the table intended as a claim for recommended use concentrations under practical conditions, nor as a list of microorganisms involved in specific end-use conditions.

Organism	Minimum Concentration (ppm) Required for Complete Inhibition of Growth
A. Gram positive bacteria	
<i>Bacillus cereus</i>	21
<i>Bacillus mycoides</i>	32
<i>Bacillus subtilis</i>	14
<i>Brevibacterium ammoniagenes</i>	19
<i>Corynebacterium pseudodiphtheriticum</i>	2

Organism	Minimum Concentration (ppm) Required for Complete Inhibition of Growth
<i>Enterococcus faecalis</i>	37
<i>Micrococcus luteus</i>	16
<i>Staphylococcus aureus</i>	1
<i>Streptococcus pyogenes</i>	1
B. Gram negative bacteria	
<i>Acinetobacter calcoaceticus</i>	4
<i>Enterobacter aerogenes</i>	16
<i>Escherichia coli</i>	13
<i>Klebsiella pneumoniae</i>	1
<i>Proteus vulgaris</i>	11
<i>Providencia rettgeri</i>	190
<i>Salmonella typhimurium</i>	12
C. Fungus	
<i>Trichophyton mentagrophytes</i>	75

Table
Not acceptable
per
Bruce
Efficacy

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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

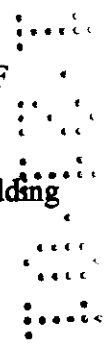
1. Textiles

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.

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.

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