

UltraFresh NM

ACCEPTED
 22 JUL 1981
 10466-27
 UNDER THE FEDERAL INSECTICIDE
 FUNGICIDE AND RODENTICIDE ACT
 FOR ECONOMIC POISON REGISTERED
 USE ONLY NO.

BACTERIOSTAT

ACTIVE INGREDIENT

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

INERT INGREDIENTS 97.0%

KEEP OUT OF REACH OF CHILDREN

CAUTION

PRECAUTIONARY STATEMENTS

HAZARD TO HUMANS AND DOMESTIC ANIMALS: This would be harmful if swallowed. Avoid contact with eyes, skin, or clothing.

FIRST AID: In case of contact, remove contaminated clothing; wash skin with soap and water, flush eyes with clear water for 15 minutes and get medical attention. Launder contaminated clothing before re-use.

DIRECTIONS FOR USE

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

UltraFresh NM is an additive designed for application to cotton, wool and synthetic fabrics to inhibit the growth of odor-causing bacteria on fabrics when used in accordance with the accompanying directions. The duration of *UltraFresh* NM's bacteriostatic activity was experimentally demonstrated on washable treated fabrics subjected to 50 conventional launderings.

STORAGE AND DISPOSAL: Store in a well ventilated place and keep away from light. Keep tightly closed until ready to use and reclose tightly after each use. Do not reuse empty drum. Return to drum reconditioner or destroy by perforating or crushing and burying it in a safe place.

DO NOT USE, POUR, SPILL OR STORE NEAR HEAT OR OPEN FLAME.

Manufactured for: THOMSON RESEARCH ASSOCIATES, LTD.
 53 SHAW STREET
 TORONTO, ONTARIO, CANADA
 M6J 2W3

Net Contents: U.S. Gallons

EPA Reg. No. 10466-27

EPA Est. 34310-RI-01

TECHNICAL DATA SHEET

ULTRA-FRESH NM BACTERIOSTAT

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

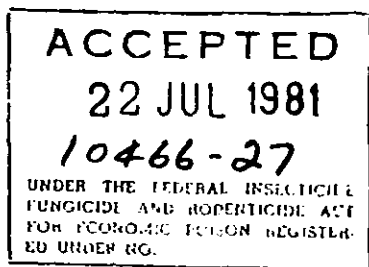
PRODUCT DESCRIPTION

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.

PHYSICAL PROPERTIES

Boiling Point	- 102.8°C
Freezing Point	- -2.4°C
Specific Gravity at 20° C	- 0.990
Ionic Nature	- Nonionic

BACTERIOSTATIC ACTIVITY



The following table lists the minimum concentrations of: ULTRA-FRESH NM, dispersed in aqueous media, required to inhibit the growth of various micro-organisms in test tube cultures. This table is intended to provide an indication of the broad spectrum activity of ULTRA-FRESH NM in aqueous solution and is neither intended as a claim for recommended use concentrations under practical conditions, nor as a list of micro-organisms involved in specific end-use conditions.

Organism

Gram Positive Bacteria

Bacillus cereus	21
Bacillus mycoides	32
Bacillus subtilis	14
Brevibacterium ammoniagenes	19
Cory. hofmanii	2
Staph. aureus P.	1
Staph. aureus C+	1
Staph. albus	1
Strep. faecalis	37
Strep. pyogenes	1
Sarcina lutea	16
Sarcina ureae	3

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Gram Negative Bacteria

Enterobacter aerogenes	16
Escherichia coli	13
Herellea vaginicola	4
Klebsiella pneumoniae	1
Mima polymorpha	3
Proteus rettgeri	190
Proteus vulgaris	11
Salmonella typhimurium	12

TOXICITY

The Acute Oral LD50 of ULTRA-FRESH NM on rats is greater than 15,000 mg/kg body weight.

APPLICATION PROCEDURES

An application range of 3.0 to 5.0%, based on fabric weight and durability requirements is recommended. ULTRA-FRESH NM can be applied from the pad bath, and liquor temperature has no effect on fabric pick-up of the product. Similarly, as temperature has little effect on exhaustion rates, 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.

PRECAUTIONS

ULTRA-FRESH NM in the concentrated form 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.

