# Ultra-Fresh® 300DD

## **NONIONIC**

#### **DIRECTIONS FOR USE**

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

Ultra-Fresh® 300DD is an additive designed for application to textiles at 1-4% on weight of goods to prevent the growth of bacteria and fundi on these surfaces.

The duration of *Ultra-Fresh*\* 300DD's antimicrobial activity has been experimentally demonstrated on washable treated fabrics subjected to 50 conventional launderings.

*Ultra-Fresh*® **300DD** also eliminates house dust mites from treated materials.

#### **ENVIRONMENTAL HAZARDS**

This pesticide is toxic to fish. Do not discharge effluent containing this product into takes, 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. 10466-24 E.P.A. Est. 34310-RI-01

ACCEPTED

APR 24 1998

Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, for the pesticide, registered under EPA Reg. No. 10466-24

## **BACTERIOSTAT & FUNGISTAT**

**ACTIVE INGREDIENTS** 

bis (tri-n-butyltin) oxide	1.06 %
5-chloro-2-(2,4-dichlorophenoxy)phenol	1.60 %
INERT INGREDIENTS	

# KEEP OUT OF REACH OF CHILDREN CAUTION

#### PRECAUTIONARY STATEMENT:

Hazard to humans and domestic animals. Harmful if swallowed or inhaled. Causes eye and skin irritation. Do not get in eyes, on skin, or clothing. Wear protective clothing (goggles and face shield, rubber gloves) when handling. Avoid breathing vapour or mist. Use adequate ventilation. Wash thoroughly with soap and water after handling.

#### 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 inhaled, remove to frosh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen. Call a physician. If swallowed, dilute by giving water, Call a physician. Never give anything by mouth to an unconscious person.

Manufactured for:

Thomson Research Associates 95 King Street East, Suite 100 Toronto, Ontario Canada M5C 1G4

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#### 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.

Net Contents: Gallons U.S.

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# THOMSON RESEARCH ASSOCIATES

A division of KROY CHEMICALS LTD.

95 King Street E., Suite 100, Toronto, Ontario, Canada M5C 1G4 Tel: (416) 955-1881 Fax: (416) 955-1887 e-mail: tra@interlog.com

# TECHNICAL DATA SHEET \*\*Ultra-Fresh\*\* 300DDN E.P.A. Registration No. 10466-24

#### PRODUCT DESCRIPTION

*Ultra-Fresh*® 300DDN is an amber aqueous solution intended to cover a wide range of potential applications in the textile area to render the treated materials resistant to attack by microorganisms such as bacteria, fungi, and house dust mites. This product, when applied according to recommendations, will last through at least 25 conventional launderings. *Ultra-Fresh*® 300DDN is also used as a laundry additive, hard surface cleaner, professional carpet and upholstery additive.

#### **Physical Properties**

Boiling Point:	110 C
Freezing Point:	-1.2 C
Specific Gravity at 20 C:	0.990

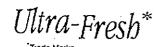
#### **BIOLOGICAL ACTIVITY**

Gram positiva hactoria

The following table lists the minimum concentrations of *Ultra-Fresh*® 300DDN, dispersed in aqueous media, required to inhibit 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*® 300DDN 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 Minimum Concentration (ppm of product)

Grain positive pacteria .		
·	*****	•
Bacillus cereus	27	•••••
Bacillus mycoides .	8'…'	• • •
Bacillus subtilis	<b>†5</b> ;**,	•
Brevibacterium ammoniagenes	34'''	•
Corynebacterium pseudodiptheriticum	3	* ** * * *
Micrococcus luteus	8	( ( (
Staphylococcus aureus	3	` (





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Minimum Concentration (ppm of product)
3 45 3
8 33 25 3 22 24
96 81 105 51 60 10 63 6 44 14

#### **TOXICITY**

The acute Oral LD<sub>50</sub> of *Ultra-Fresh*<sup>®</sup> 300DDN in rats is 12,500 mg/kg of body weight.

#### **APPLICATION PROCEDURES**

In all cases below an application range of 1.0% to 3.5%, based on the weight of the goods, is quoted. The exact percentage depends on end-use requirements such as the degree of biological activity and the durability required on a specific material. This required level can be readily determined by means of a trial run.



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#### 1. Fabric

#### a) Exhaustion Procedure

*Ultra-Fresh*® 300DDN should be added at the level of 1.0% to 3.5% based on the weight of the goods. The bath ratio should ideally be 1:15. *Ultra-Fresh*® 300DDN can be added in the same bath as softeners or antistatics.

The *Ultra-Fresh*® 300DDN should be added to the cold liquor (room temperature), run for 5 minutes cold, and then the temperature raised to 49EC over a period of 15 minutes. The bath is maintained at this temperature for a further 15 minutes, and then dropped.

#### b) Padding

The padding bath is prepared so that allowing for the expected pick-up, a level of 1.0% to 3.5% *Ultra-Fresh*® 300DDN, based on the weight of the goods, is picked up by the fabric. Final percentage depends on end-use requirements.

As with the exhaustion procedure, the *Ultra-Fresh*® 300DDN can be co-applied with softeners or antistatics.

## c) Co-Treatment with Resins/Softeners

Ultra-Fresh® 300DDN is compatible with most resin/softener systems. The Ultra-Fresh® 300DDN is added into the resin/softener bath, along with the other ingredients, at a level sufficient to give an application of 1.0% to 3.5% (based on the weight of the goods) on the fabric. Final percentage depends on end-use requirements.

#### 2. Air Filters

Ultra-Fresh® 300DDNN is used to render air filters resistant to the growth of bacteria and fungi. The rate of application is usually between 2-4%.

3. For all other applications, please refer to the appropriate product information sheet.



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#### **PRECAUTIONS**

*Ultra-Fresh*® 300DDN should be handled with the care and common sense that should be accorded to all biologically active chemicals. Immediate washing is recommended if contact should occur. Please consult the 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 product used

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