



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY
AND POLLUTION PREVENTION

December 13, 2018

Olivia Laird
Agent
Thomson Research Associates, Inc.
49 Gervais Drive
Toronto, Ontario M3C 1Y9, Canada

Subject: Label and CSF Notification per PRN 98-10 – Updated Label and Basic CSF
Minor Corrections
Product Name: Ultra-Fresh DM-25
EPA Registration Number: 92760-5
Application Date: 09/07/2018
Decision Number: 544203

Dear Ms. Laird:

The Agency is in receipt of your Application for Pesticide Notification under Pesticide Registration Notice (PRN) 98-10. The Antimicrobials Division (AD) has conducted a review of this request for its applicability under PRN 98-10 and finds that the actions requested fall within the scope of PRN 98-10.

The label submitted with the application has been stamped “Notification” and will be placed in our records.

Should you wish to add/retain a reference to the company’s website on your label, then please be aware that the website becomes labeling under the Federal Insecticide Fungicide and Rodenticide Act and is subject to review by the Agency. If the website is false or misleading, the product would be misbranded and unlawful to sell or distribute under FIFRA section 12(a)(1)(E). 40 CFR 156.10(a)(5) list examples of statements EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product’s label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore, should the Agency find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA approved registration, the website will be referred to the EPA’s Office of Enforcement and Compliance.

The CSFs submitted with your application have been stamped “Notification” and placed in our files.

Please note that the record for this product currently contains the following CSFs:

- Basic CSF dated 09/07/2018

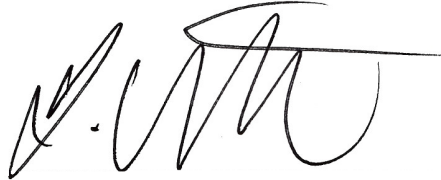
On December 6, 2018 the Alternate CSF 1 was requested to be removed from the Agency

records.

Any CSFs other than those listed above are superseded/no longer valid.

If you have any questions, please contact Terria Northern at 703-347-0265 or by email at northern.terria@epa.gov.

Sincerely,

A handwritten signature in black ink, appearing to read 'Z. Bain', with a long horizontal flourish extending to the right.

for

Zeno Bain, Product Manager 33
Regulatory Management Branch I
Antimicrobials Division (7510P)
Office of Pesticide Programs

The applicant has certified that no changes, other than those reported to the Agency have been made to the labeling. The Agency acknowledges this notification by letter dated:

12/13/2018

Ultra-Fresh DM-25

BACTERIOSTATIC AND FUNGISTATIC PRESERVATIVE

DIRECTIONS FOR USE

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

Ultra-Fresh DM-25 is used as a bacteriostatic and fungistatic preservative finish for industrial textiles in the presence of moisture. Also, to protect paints, latex, gelatin, and starch-based adhesives in the can and in those products to which such emulsions and adhesives are applied from bacterial and fungal degradation. As well, **Ultra-Fresh DM-25** can protect adhesive films against fungal growth. Use only to treat carpet-backing. Not for use in carpet fibers. Treated Plastics can not be used to manufacture children's toys.

Ultra-Fresh DM-25 may not be used in food grade adhesives. **Ultra-Fresh DM-25** is to be used as directed in the accompanying Technical Data Sheet.

USER SAFETY REQUIREMENTS

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions exist, use detergent and hot water. Keep and wash PPE separately from other laundry. Discard clothing or other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them.

PPE REQUIREMENTS

Wear chemical resistant gloves, goggles, face shield, chemical-resistant apron over long sleeved shirt and long pants and a NIOSH approved respirator with an organic vapor (OV) cartridge or canister with any N, R, P or HE prefilter.

USER SAFETY RECOMMENDATIONS

User should wash hands before, eating, drinking, chewing gum or using the toilet. User should remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Users should remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish, aquatic invertebrates, oysters and shrimp. 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.

EPA Reg. No. **92760-5**
EPA Est. 87118-MA-001

ACTIVE INGREDIENT

Octhilinone, 2-n-octyl-4-isothiazolin-3-one 25%

OTHER INGREDIENTS..... 75%

Total 100%

KEEP OUT OF REACH OF CHILDREN
DANGER  **POISON**

PRECAUTIONARY STATEMENTS:

HAZARD TO HUMANS and DOMESTIC ANIMALS: Fatal if absorbed through skin. Corrosive. Causes irreversible eye damage. Causes skin burns. May be fatal if inhaled. Harmful if swallowed. Do not get in eyes, on skin or on clothing. Do not breathe vapor. Avoid breathing vapor or spray mist. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

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 advice.
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 Inhaled	<ul style="list-style-type: none"> Move person to fresh air If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible
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.

Note to Physician: Probable mucosal damage may contraindicate the use of gastric lavage. Measures against circulatory shock, respiratory depression and convulsions may be needed.

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.

STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal or cleaning of equipment.

Pesticide Storage: This product is corrosive to mild steel. Do not store or transport in unlined metal containers. Do not contaminate with strong oxidizing or reducing agents.

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:

Nonrefillable container. Do not reuse or refill this container. Offer for recycling, if available. Consult Federal, State, or local disposal authorities for approved alternative procedures if recycling is not available.

Clean container promptly after emptying.

Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container ¼ full with water. Replace and tighten closures. Tip container on its side and roll back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two or more times.

General: Consult Federal, State, or local disposal authorities for approved alternative procedures.

Manufactured for: Thomson Research Associates, Inc.
49 Gervais Drive
Toronto, Ontario, Canada
M3C 1Y9

Ultra-Fresh is a registered trademark of Thomson Research Associates, Inc.

Net Contents: 440 lbs



Ultra-Fresh DM-25

Antibacterial/ Antifungal/ Antialgal agent

PRODUCT DESCRIPTION

Ultra-Fresh DM-25 is a non-aqueous solution designed to prevent odor generation, discoloration and product degradation caused by the growth of fungi, bacteria and algae. **Ultra-Fresh DM-25** is for use with industrial and outdoor textiles, as well as polymers such as polyvinyl chloride, polyurethane foam, polyolefins and plastic films. **Ultra-Fresh DM-25** is an effective antimicrobial treatment for emulsions including coatings, adhesives, paints and latex, both for in-can and in-use protection. **Ultra-Fresh DM-25**-treated materials should only be used for non-food contact applications.

Ultra-Fresh DM-25 is based on the molecule octyl isothiazolinone. It is a broad spectrum antimicrobial agent that reacts with thiol groups present in microbial proteins, effectively blocking multiple critical cell functions.

DIRECTIONS FOR USE

The application levels given below are representative of those found necessary in practice. For each specific use, one or more trial runs are recommended in order to determine the best application level and method of addition for the particular end use. This list is only intended to give examples of the types of usages where **Ultra-Fresh DM-25** has been shown to be effective. Applications rates are not to exceed the maximum values listed below for specific end uses.

End use	Directions
Industrial and Outdoor Textiles	<p>Ultra-Fresh DM-25 can be padded onto woven and nonwoven fabrics from an aqueous or solvent pad bath. The target application is 0.1-0.4% product owg. When applying by pad, the exact concentration in the application bath must be calculated based on the pick-up of the fabric i.e. 6gpl at 67% pick-up for 0.4% owg. For higher concentration applications using aqueous pad baths, the use of a surfactant may be necessary to maintain the active in solution. Agitation should be provided throughout the run.</p>
Polyurethane Foam, PVC and Other Polymeric Systems	<p>Polyurethane foams for furniture, bedding, carpet cushion automotive and marine applications etc. not subject to continuous outdoor environments can be rendered resistant to growth of microorganisms by the incorporation of Ultra-Fresh DM-25. The Ultra-Fresh DM-25 can be introduced directly into the liquid polyol prior to the polymerization process at levels typically ranging from 0.1% to 0.5% on the final foam weight.</p> <p>Ultra-Fresh DM-25 can be used to protect vinyl and other polymeric systems from microbial growth by addition at a rate of 0.1% to 0.5% based on the final polymer weight. Ultra-Fresh DM-25 should be added into the manufacturing process at a point that ensures uniform distribution throughout the polymer.</p> <p>For use in foams and polymeric systems for use in outdoor environments Ultra-Fresh DM-25 can be added by addition at a rate of 0.1% to 1.3% based on the final polymer weight.</p>

End use	Directions
Textile coatings	Polyurethane, acrylic, PVC and latex coatings/compounds may be rendered resistant to the growth of microorganisms by the incorporation of Ultra-Fresh DM-25 . Ultra-Fresh DM-25 can be added directly to the liquid system prior to the drying/heating/crosslinking/curing stage at dosage levels of 0.1% to 0.4% on the final weight of the coating.
Emulsions, Paints and Adhesives	Ultra-Fresh DM-25 may be utilised in a wide range of emulsions, paints and adhesives. Addition of Ultra-Fresh DM-25 provides an effective in-can protection against bacterial and fungal degradation. For hot-melt adhesives, temperatures should not exceed 200C/392F. The use of 0.1-0.4% Ultra-Fresh DM-25 can also offer protection to dried films after application of these products.

Test Methods

The antifungal properties of **Ultra-Fresh DM-25** may be determined using most fungal test methods, including AATCC Method 30 or ASTM G21. To test for antibacterial properties, quantitative methods such as the ISO 20743 (JIS L1902) or ISO 22196 (JIS Z 2801) may be required, depending on the level of treatment.

Typical Properties:

Appearance	Clear amber liquid
Active Ingredient	25% octyl isothiazolinone
Solvent Carrier	Propylene glycol
Volatile Organic Content	75%
Specific Gravity at 25C (77F)	1.01 – 1.06
Viscosity at 25C (77F)	50 cps
pH (10% aqueous solution)	2.4
Incompatibilities	Ammonia, primary or secondary amines, or salts of these bases

Safety and Handling

Refer to product label for safe handling and use directions.

Refer to product Safety Data Sheet for health and safety 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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October 30, 2018.

Replaces: August 25, 2016.

