

ACCEPT
 AUG 28 1986
 Under the Federal Insecticide,
 Fungicide, and Rodenticide Act,
 as amended, for the pesticide
 registered under
 EPA Reg. No. 10466-32

TECHNICAL DATA SHEET

ULTRA-FRESH AF-25

Bacteriostatic-Fungistatic Liquid Preservative
 E.P.A. Registration No. 10466- 32
 E.P.A. Establishment No. 34310-RI-01

PRODUCT DESCRIPTION

ULTRA-FRESH AF-25 is a clear pale amber liquid used for rendering fabrics and water-based emulsion resistant to attack by microorganisms.

PHYSICAL PROPERTIES (These do not constitute specifications)

Appearance:	Clear amber liquid
Active Ingredient:	25% 2-n-Octyl-4-isothiazolin-3-one
Solvent Carrier:	Propylene glycol
Weight per Gallon:	8.6 lb.
Viscosity:	40 cps (Brookfield #1 spindle at 60 rpm, 25°C.)
Flash Point:	> 200°F (Pennsky-Martens Closed Tester)
Solubility:	The maximum solubility of the active ingredient in water is 800 ppm (0.08% on a weight basis), a level adequate for the preparation of completely soluble fabric treatment solutions. To prepare concentrates of ULTRA-FRESH AF-25, add propylene glycol to assure homogeneity. Concentrates may be then diluted in water to prepare a fabric treatment solution containing 5.0 to 10.0 ppm of active ingredient.

STABILITY

ULTRA-FRESH AF-25 as supplied appears to be stable indefinitely at room temperature. More dilute solutions in propylene glycol and aqueous treatment solutions are also considered completely stable. The material is not stable in the presence of ammonia, primary and secondary amines, or salts of these compounds.



Trade Marks
 Marques Déposés

UltraFresh

HANDLING PRECAUTIONS

ULTRA-FRESH AF-25 as supplied causes severe eye and skin irritation may be harmful if inhaled or swallowed. Therefore, rigorous precautions should be taken to avoid all personal contact with it including contamination of clothing or inhalation of the vapor or mist. Wear goggles and rubber gloves. Keep containers closed when not in use. Use with adequate ventilation. Do not take internally. Wash thoroughly after handling. Remove contaminated clothing immediately and launder before re-wearing.

FIRST AID

In case of contact, immediately flush eyes with plenty of water for at least 15 minutes and call a physician. Wash skin with soap and plenty of water. Remove and launder contaminated clothing. If the material is swallowed, induce vomiting immediately by giving two glasses of water to drink and sticking a finger down the throat; call in a physician promptly. Never give anything by mouth to an unconscious person.

If inhaled, remove victim to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call in a physician.

BIOLOGICAL PERFORMANCE

Relatively low concentrations of ULTRA-FRESH AF-25 inhibit the growth of a wide variety of fungi, as Table 1 indicates.

The information given in this table is based on the present state of our knowledge, but any conclusions and recommendations are made without liability on our part. Buyers and users should make their own assessment of our products under their own conditions and for their own requirements.

406

TABLE 1

BIOLOGICAL ACTIVITY OF ULTRA-FRESH AF-25 BY SERIAL DILUTION TESTS

<u>Test Fungus</u>	<u>Minimum Inhibiting Concentration in ppm of Active Ingredient</u>
Alternaria dianthicola (11782)	1
Aspergillus niger (9642)	8
Aspergillus oryzae (10196-QM #1278)	2
Aspergillus repens (9294)	2
Candida albicans, yeast (11651)	2
Chaetomium globosum (6205)	4
Cladosporium resinae (11274)	0.5
Mucor rouxii	8
Penicillium funiculosum (9644)	1
Phoma glomerata (6735)	1 or less
Phoma pigmentivora (12569)	2
Pullularia pullulans (9348)	0.3
Rhizopus stolonifer (10404)	4
Rhodotorula rubra, yeast (9449)	4
Saccharomyces cerevisiae, yeast (2601)	1
<u>Test Bacteria</u>	
<u>Klebsiella pneumoniae</u>	22.5
<u>Staphylococcus aureus</u>	18.7

DIRECTIONS FOR USE

The application levels given below are representative of those found necessary in practice. For each specific use, a trial run is recommended in order to determine the best application level and method of addition for the particular product being treated.

1. Fabrics

ULTRA-FRESH AF-25 can be padded on to fabrics from either an aqueous or solvent dispersion. Sufficient ULTRA-FRESH AF-25 should be added to the pad bath to give a fabric pick-up of 0.075 to 0.125% w/w.

2. Water-Base Emulsions/Adhesives

Water-base adhesives and related emulsion systems can be rendered resistant to biologically induced instability and degradation by the addition of ULTRA-FRESH AF-25. An application level of 0.05% w/w based on total emulsion weight is recommended. ULTRA-FRESH AF-25 should be treated as one of the components and added prior to mixing. In the case of hot-melt adhesives the temperature should not exceed 200°C. The in-can and in-use protection conferred by ULTRA-FRESH AF-25 will last indefinitely in the undiluted adhesive or emulsion.

3. Polymer Systems

Polymeric materials such as vinyl can be rendered resistant to the growth of mildew by the incorporation of ULTRA-FRESH AF-25. Add 0.05% to 0.125% by weight of ULTRA-FRESH AF-25 to the resin mix. The exact amount required for a specific usage can be readily determined by means of a preliminary trial.

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THOMSON RESEARCH ASSOCIATES LIMITED
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Product Information Sheet
AF-25

E.P.A. Registration No.: 10466-32

E.P.A. Est. No.: 34310-RI-01

BACTERIOSTATIC AND FUNGISTATIC AGENT FOR
APPLICATION TO CARPETS AND RUGS BY
PROFESSIONAL CARPET CLEANERS ONLY

Bacteriostatic and Fungistatic Activity on
Textile Surfaces

ULTRA-FRESH AF-25 confers bacteriostatic and fungistatic protection to textile (carpet) surfaces when the application procedures set out below are followed.

ULTRA-FRESH AF-25 may be used on the following fibers between shampooing or other liquid cleaning processes:

- | | |
|-----------|---------------|
| Acetates | Polyethylene |
| Acrylics | Polyolefins |
| Cotton | Polypropylene |
| Nylon | Rayon |
| Polyester | Wool |
| Orlon | |

Primary Use

To effectively resist the growth and destructive action of a wide variety of bacteria, mold, mildew and other fungi between shampooings and other liquid cleaning processes.

Bacteriostatic and fungistatic action is exhibited on contact in the presence of moisture.

Application Instructions

1. Dilute one fluid ounce of ULTRA-FRESH AF-25 with two gallons of cold water.
2. Add to portable sprayer and adjust so that one gallon of diluted ULTRA-FRESH AF-25 will treat 600 square feet of textile (carpet) surface.
3. Spray evenly over carpet.
4. Using pile brush or similar, brush diluted ULTRA-FRESH AF-25 ending up brushing in one direction for appearance of pile. Employ aluminium foil under furniture legs until carpet is dry.
5. Thoroughly rinse sprayer after use.
6. May be applied to carpet backings pad.

The information and data contained herein are based on information we believe reliable. You should thoroughly test any application, and independently conclude satisfactory performance before commercialization. Suggestions of uses should not be taken as inducements to infringe any particular patent.

7067

UltraFresh™

AF-25

BACTERIOSTATIC AND FUNGICIDAL PRESERVATIVE

ACTIVE INGREDIENT	
Octachloro	22%
INERT INGREDIENTS	78%
TOTAL	100%

KEEP OUT OF REACH OF CHILDREN

DANGER

CORROSIVE

ONLY FOR SALE TO USE AND STORAGE BY SERVICE PERSONS AND INDUSTRIAL USERS

DIRECTIONS: Dilute 1 fl. oz. to 2 gal. cold water. See carton and product information sheet for additional precautions and use direction.

DISPOSAL: Do not reuse empty container. Wrap and put in trash collection.

EPA Reg. No. 10466-32 EPA Est. No. 376-15MD01
EPA Dist. No. 10466-32-37615
Net Contents: 1 FLUID OZ.

Distributed by
Chemical Specialties Mfg. Corp. • Baltimore, MD 21205

ACCEPTED

AUG 4 1966

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