

IRGAGUARD® F3000

Fungicide

A material preservative and antifungal agent to inhibit the growth of mold and mildew on adhesive films, paint films, paper products, heating and cooling system filters and/or room air cleaners/purifiers and natural and synthetic fibers.

DIRECTIONS FOR USE

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

IRGAGUARD® F3000 may be incorporated into materials that may be used in the finished product at 0.01 to 0.5% of IRGAGUARD® F3000 by weight of the total formulation. Typical uses levels are indicated below. Exact use levels will depend on individual products and manufacturing procedures. Contact Ciba Specialty Chemicals Corporation to determine the appropriate amount of IRGAGUARD® F3000 for individual finished products.

Adhesive Films: Normal dosages for adhesives range from 0.05% to 0.15%. IRGAGUARD® F3000 can be incorporated with the makeup water. IRGAGUARD® F3000 should not be used where the treated adhesive comes in contact with food packaging materials or on food contact surfaces.

Paint Films: Normal dosages for exterior paints range from 0.05% up to 0.4%. In interior paints, dosages range from 0.01% up to 0.1%. IRGAGUARD® F3000 should be incorporated into the pigment grind phase of the paint making operation.

Paper Products: IRGAGUARD® F3000 is most efficiently applied via the size tub or water troughs. The tub-size or water-trough solutions should be adjusted to a pH below 4.0. IRGAGUARD® F3000 should then be added with thorough agitation. IRGAGUARD® F3000 should be applied at dosage levels from 0.02% to 0.1% based on the finished paper weight. For use in a coating color, IRGAGUARD® F3000 should be added with agitation to the makeup water. Do not use for paper or paperboard products intended for use in contact with food.

Air filters (heating & cooling filters and/or room air cleaners/purifiers): For protection against mold and mildew, IRGAGUARD® F3000 may be incorporated directly into the hot melt. IRGAGUARD® F3000 may also be added with moderate agitation to the latex binder before spraying onto the web. Dosage concentrations in either case range from 0.1 to 0.5% based on weight of the formulations.

Plastics: For vinyl chloride and urethane add from 0.1 to 0.3%. For polypropylene, polyethylene and nylon add from 0.1 to 0.3%. Add to the master batch after melting pellets. Allow time for uniform mixing before injection. IRGAGUARD® F3000 should not be used where treated plastic comes in contact with food packaging materials or on food contact surfaces.

Canvas Textiles: The simplest treatment method is to prepare a trough with water at pH 3-4 and then to add the IRGAGUARD® F3000 to obtain the desired concentration. The fabric is passed through the solution until the proper amount of solution is absorbed onto the fabric. A wetting agent may be used to aid the solution in penetrating the fabric. IRGAGUARD® F3000 should be applied at dosage levels from 0.05% to 0.3% based on finished fabric weight. The amount necessary to provide the desired protection against mold and mildew can then be determined. If deposition of IRGAGUARD® F3000 onto the canvas is desired, a subsequent wash with a 1% soda ash solution will suffice. This can be followed by normal processing steps of the canvas textile. IRGAGUARD® F3000 should be used for manufacture of canvas textiles only, such as tents and awnings.

Nylon Carpeting: Using conventional methods such as spin finish or melt blending, apply 0.05% (spin finish) to 0.5% (melt blending) of IRGAGUARD® F3000 based on total weight of the material being used.

STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage and disposal.

Pesticide Storage: Store in a cool, dry place.

Pesticide Disposal: Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

Container Disposal: Completely empty drums by shaking and tapping sides and bottom to loosen clinging particles. Empty residue into application equipment. Then dispose of fiber drum in a sanitary landfill or by incineration, if allowed by state and local authorities.

IRGAGUARD® is a trademark of Ciba Specialty Chemicals Corporation

EPA Approval Date: 10-18-2002

EPA Registration No. 40777-20

Active ingredient:
2-(4-thiazolyl) benzimidazole . . . 99.5%
Other ingredients 0.5%
Total 100.0%

KEEP OUT OF REACH OF CHILDREN

CAUTION

EPA Establishment No. 70404-AL-002
EPA Establishment No. 70404-DEU-002
EPA Establishment No. 040810-CHE-001

Net Weight: 45 Kg.

Lot No.: **ACCEPTED**

Ident. No.: **DEC 04 2003**

Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, for the pesticide, registered under EPA Reg. No. **40810-20**

CIBA SPECIALTY CHEMICALS CORP.
PLASTIC ADDITIVES
540 WHITE PLAINS RD.,
TARRYTOWN, NY 10591

Ciba

PRECAUTIONARY STATEMENTS KEEP OUT OF REACH OF CHILDREN

CAUTION

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION: Harmful if swallowed, inhaled, or absorbed through the skin. Causes moderate eye irritation. Avoid contact with skin, eyes, and clothing. Avoid breathing dust. Wear chemical resistant gloves and protective clothing when handling. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse.

ENVIRONMENTAL HAZARDS

Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans, or public waters unless in accordance with the 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 sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA.

FIRST AID:

Have the product container or label or Material Safety Data Sheet (MSDS) with you when calling a poison control center or doctor, or going for treatment.

- Call a poison control center or doctor immediately for treatment advice.
- 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.

- Rinse skin immediately with plenty of water for 15-20 minutes
- Call a poison control center or doctor for treatment advice.

IF INHALED

- Remove person to fresh air.

IF IN EYES

- Call a poison control center or doctor for further treatment advice.
- 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.

FOR 24-HOUR EMERGENCY MEDICAL ASSISTANCE, CALL
1-800-873-1138

40810-20

12-4-2003