

METASOL[®] TK-100

TO INHIBIT THE GROWTH OF MOLD AND MILDEW ON ADHESIVE FILMS, SEALANTS, PAINT FILMS, PAPER PRODUCTS, HEATING AND COOLING SYSTEM FILTERS AND/OR ROOM AIR CLEANERS/PURIFIERS AND NATURAL AND SYNTHETIC FIBERS.

ACTIVE INGREDIENT: 2-(4-Thiazolyl)Benzimidazole ----- 99.5%
 INERT INGREDIENTS ----- 0.5%
 TOTAL ----- 100%

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION. Harmful if swallowed, inhaled or absorbed through 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 other 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.

STORAGE AND DISPOSAL

Keep container closed when not in use. Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.
PLASTIC CONTAINERS: Do not reuse container. Completely empty liner by shaking and tapping sides and bottom to loosen clinging particles. Empty residue into application equipment. Dispose of plastic liner and metal drums as per instructions below.
METAL CONTAINERS: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities. When the water-soluble bags have been removed, dispose of corrugated box in a sanitary landfill, by incineration, or, if allowed by State and Local Authorities, by burning. If burned, stay out of smoke.

TYPICAL LEVELS OF USE

The following ranges for specific product applications are based on total formulation weight. Exact levels will depend on individual formulation components, production procedures, storage time, and environmental conditions, and should be determined by laboratory testing.

| Effective Product Application Concentration | |
|---|--------------|
| Adhesives | 0.05 - 0.15% |
| Paints | |
| Exterior | 0.05 - 0.4% |
| Interior | 0.01 - 0.1% |
| Paper Products | 0.02 - 0.1% |
| Sealants | 0.01 - 0.1% |
| Canvas Textiles | 0.05 - 0.3% |
| Nylon Carpeting | 0.05 - 0.5% |
| Air Filters (heating & cooling filters) and/or room air cleaner/purifiers | 0.1 - 0.5% |
| Plastics | |
| Vinyls or Urethane | 0.1 - 0.3% |
| Polystyrene, Polyethylene, or Nylon | 0.2 - 0.3% |

KEEP OUT OF REACH OF CHILDREN CAUTION

FIRST AID

IF SWALLOWED: 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 by a poison control center or doctor.
IF ON SKIN OR CLOTHING: 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: Hold eyes 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. Call a poison control center or doctor for treatment advice.
IF INHALED: 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. Call a poison control center or doctor for treatment advice.
 Have the product Material Safety Data Sheet (MSDS) with you when calling a poison control center or when going for treatment.

* Metasol is a registered trademark of LANXESS Corporation

Product manufactured in India

INTERNATIONAL 703-527-3887
 Net Contents:
 Lot No.:

DIRECTIONS FOR USE

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

Adhesive Films: Normal TK-100 dosages for adhesives range from 0.05 to 0.15%. METASOL TK-100 can be incorporated with the makeup water. Other LANXESS preservatives should be incorporated into the aqueous adhesive formulations to inhibit in-can microbial degradation during shelf storage. METASOL TK-100 should not be used where the treated adhesive comes in contact with food packaging materials or on food contact surfaces.

Paint Films: Normal TK-100 dosages for exterior paints range from 0.05 up to 0.4%. In interior paints, dosages range from 0.01 up to 0.1%. METASOL TK-100 should be incorporated into the pigment grind phase of the paint making operation. Other LANXESS preservatives should be incorporated into latex paint formulations to inhibit any microbial degradation during shelf storage.

Sealants: Metasol TK-100 should be incorporated into the sealant formulation to inhibit any microbial growth on the sealant or part coated by the sealant during the use of the part.

Paper Products: METASOL TK-100 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. The METASOL TK-100 should then be added with thorough agitation. The METASOL TK-100 should be applied at dosage levels from 0.02 to 0.1% based on the finished paper weight. For use in a coating color, the METASOL TK-100 should be added with agitation to the makeup water.

METASOL TK-100 is a fungicide only. Other LANXESS preservatives should be incorporated into sizing solutions to inhibit any microbial degradation during shelf storage.

NOTE: METASOL TK-100 should be used only for the manufacture of non-food grade paper products. METASOL TK-100 has not been cleared for use in 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, METASOL TK-100 may be incorporated directly into the hot melt. METASOL TK-100 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 total weight of the formulation.

Plastics: Add to master batch after melting pellets. Allow time for uniform mixing before injection. METASOL TK-100 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 METASOL TK-100 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. The METASOL TK-100 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 METASOL TK-100 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. METASOL TK-100 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 METASOL TK-100 based on total weight of the material being used.

ACCEPTED

JUN 30 2005

Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, for the pesticide, registered under EPA Reg. No. 39967-33

IN CASE OF EMERGENCY, CALL: CHEMTREC 800-424-9300
 EPA REGISTRATION NUMBER: 39967-33
 EPA ESTABLISHMENT NUMBER:

LANXESS

LANXESS Corporation
 111 RIDC Park West Drive • Pittsburgh, PA 15275-1112

LABEL TEXT DATE:

39967-33

6/30/2005

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