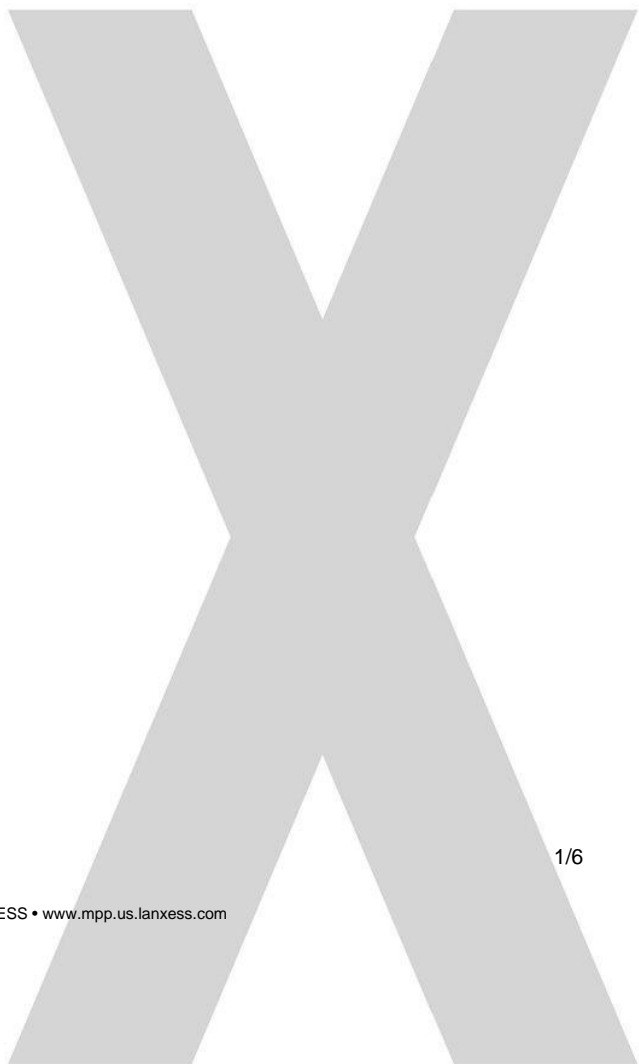




Product Information

Metasol[®] TK-100

Thiabendazole (TBZ)



Metasol[®] TK-100

EPA Registration No. 39967-33

Uses

For industrial use as preservative to inhibit the growth of fungi on adhesive films, sealants, grout, paint films, paper products, heating and cooling system filters and/or room air cleansers/purifiers, and natural and synthetic fibers.

Chemical and physical data

Active ingredient:	~ 99.5 % 2-(4-Thiazolyl)benzimidazole
Product description:	off white to tan powder

Specification

The specification parameters can be found in the currently valid product specification.

Characteristic data*

Melting point:	298 - 301 °C (568.4 - 573.8 °F)
Vapour pressure:	< 0.0001 hPa (25 °C / 77 °F)
Water solubility:	0.031 g/l

*These items are provided as general information only. They are approximate values and are not considered to be part of the product specifications.

Storage

Product should be stored in the original sealed package.
If stored properly, Metasol[®] TK-100 has a shelf life of at least 60 months.

Metasol® TK-100

Application

Metasol® TK-100 is off-white to tan powder of thiabendazole.

Metasol® TK-100 has low volatility and is both pH and temperature stable. Metasol® TK-100 also has a low water solubility and a good fungicidal efficacy. When combined with another fungicide active, Metasol® TK-100 provides long term dry-film protection.

Metasol® TK-100 will not adversely affect product physical properties or performance and should not impart odor or color to most final products.

The appropriate dose of Metasol® TK-100 depends on several factors: raw materials, microbial load, pH, estimated storage time. Good manufacturing practices can help optimize the Metasol® TK-100 effectiveness.

To obtain reliable and reproducible results, homogeneous distribution in the materials to be protected must be ensured by taking suitable measures in production (stirring, agitating, etc.).

As with any product, the use of this product must be tested (including field testing) prior to incorporating into finished product.

Material Compatibility

Metasol® TK-100 is compatible with PVC, polyethylene, polypropylene, 304 and 316 stainless steel, and kynar.

As with any product, use of the products mentioned in this publication in a given application must be tested (including field testing, etc.) by the user in advance to determine suitability.

Metasol® TK-100

Directions for use

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

Applications	Dosage Level**
Adhesives***	0.05 - 0.15 %
Paints Exterior Interior	0.05 - 0.4 % 0.01 - 0.1 %
Paper Products***	0.02 - 0.1 %
Sealants***	0.01 - 0.1 %
Grouts***	0.05 - 0.8 %
Natural and Synthetic Fibers (Textiles, Fabrics, Canvas and Cordage (Not for Apparel))***	0.05 - 0.5 %
Air Filters (heating & Cooling filters) and/or room air cleaner/purifiers***	0.1 - 0.5 %
Plastics Vinyl chloride or Urethane Polypropylene, Polyethylene, or Nylon	0.1 - 0.3 % 0.2 - 0.3 %
Treated Plastic Intermediate*** This rate applies only to intermediate manufacturing/industrial uses. It does not apply to active ingredient concentrations in consumer finished products. Metasol® TK-100 CANNOT BE USED WHERE TREATED PLASTIC COMES IN CONTACT WITH HUMAN DRINKING WATER OR FOOD	up to 25 %

**For detailed dosage instructions see Metasol® TK-100 EPA Label

*** Not For Use in the State of California



Metasol® TK-100

Registration / Approval / Recommendation****

EPA Registration No. 39967-33

Up to date information on the registration status of our products can be obtained from:

LANXESS Corporation
Business Unit Material Protection Products (MPP)
Regulatory Affairs
111 RIDC Park West Drive
Pittsburgh, PA 15275-1112

******Regulatory Compliance Information:** Some of the end uses of the products described in this bulletin must comply with applicable regulations, such as the FDA, NSF, USDA, and CPSC. If you have any questions on the regulatory status of these products, contact your LANXESS Corporation representative or the LANXESS Regulatory Affairs Manager in Pittsburgh, PA

Health & Safety Information

Appropriate literature has been assembled which provides information concerning the health and safety precautions that must be observed when handling the LANXESS products mentioned in this publication. For materials mentioned which are not LANXESS products, appropriate industrial hygiene and other safety precautions recommended by their manufacturers should be followed. Before working with any of these products, you must read and become familiar with the available information on their hazards, proper use, and handling. This cannot be overemphasized. Information is available in several forms, *e.g., material safety data sheets and product labels*. Consult your LANXESS Corporation representative or contact the LANXESS Product Safety and Regulatory Affairs Department in Pittsburgh, PA.

Metasol® TK-100

Precautions

Metasol® TK-100 is supplied as a powder. When handling Metasol® TK-100, general recommendations for handling any chemicals should be observed, e.g. wearing of protective clothing, safety goggles and protective gloves. Skin contact and inhalation of vapors should be avoided. If the product comes into contact with the body, the affected area should be washed immediately with large amounts of soap and water (e.g. product that has been splashed in the eyes should be rinsed out immediately with plenty of water). If irritation persists, the affected individual should obtain medical attention. Contaminated clothing should be removed and properly cleaned or disposed.

The current safety data sheet should be observed. This contains further information on labelling, transport and storage as well as information on handling, product safety, toxicity and ecology.

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The manner in which you use and the purpose to which you put and utilize our products, technical assistance and information (whether verbal, written or by way of production evaluations), including any suggested formulations and recommendations are beyond our control. Therefore, it is imperative that you test our products, technical assistance and information to determine to your own satisfaction whether they are suitable for your intended uses and applications. This application-specific analysis must at least include testing to determine suitability from a technical as well as health, safety, and environmental standpoint. Such testing has not necessarily been done by us. Unless we otherwise agree in writing, all products are sold strictly pursuant to the terms of our standard conditions of sale. All information and technical assistance is given without warranty or guarantee and is subject to change without notice. It is expressly understood and agreed that you assume and hereby expressly release us from all liability, in tort, contract or otherwise, incurred in connection with the use of our products, technical assistance, and information. Any statement or recommendation not contained herein is unauthorized and shall not bind us. Nothing herein shall be construed as a recommendation to use any product in conflict with patents covering any material or its use. No license is implied or in fact granted under the claims of any patent.

Note: The information contained in this bulletin is current as of the edition date. Please contact LANXESS Corporation to determine if this publication has been revised.

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This document contains important information and must be read in its entirety.
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