

**PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS AND
DOMESTIC ANIMALS**

CAUTION!

HARMFUL IF SWALLOWED.

Avoid contact with skin, eyes, or clothing.
Wear rubber gloves and protective clothing
when handling.
Wash thoroughly with soap and water after
handling.

STATEMENTS OF PRACTICAL TREATMENT

EYES: In case of eye contact, flush with plenty
of water for at least 15 minutes. Get medical
attention if irritation persists.

SKIN: In case of skin contact, wash thoroughly
with plenty of soap and water. Get medical
attention if irritation persists.

INTERNAL: If swallowed, call a physician or
Poison Control Center.

ENVIRONMENTAL HAZARDS

Do not discharge into lakes, streams, or public
waters unless in accordance with an NPDES
permit. For guidance, contact your Regional
Office of the EPA.

- EPA Registration No. 10445-40
☐ EPA Establishment No. 10445-PA-01
☐ EPA Establishment No. 618-NJ-01
☐ EPA Establishment No. 10445-CA-01
☐ EPA Establishment No. 10445-TX-01
☐ EPA Establishment No. 10445-MO-01

U.S. Pat. 3,017,415 & 3,370,957



TK-100®

**TO INHIBIT THE GROWTH OF MOLD AND MILDEW ON
PAINT FILMS AND NATURAL AND SYNTHETIC FIBERS**

Active Ingredient
2-(4-thiazolyl)benzimidazole ... 98.5%
Inert Ingredient ... 1.5%

KEEP OUT OF REACH OF CHILDREN

CAUTION

See side panel for additional
precautionary statements.

Net Weight 25 Lbs. (11.4 Kg.)

CALGON CORPORATION
CALGON CENTER • PITTSBURGH, PA. 15230

64756

DIRECTIONS FOR USE

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

DOSAGE — The amount necessary for desired
protection varies greatly, depending upon formu-
lation. Refer to the Product Data Sheet for direc-
tions for use.

NOTICE

Seller expressly warrants that the product con-
forms to its chemical description. There are no
warranties associated with the sale of this product
either express or implied, including but not limited
to the warranties of fitness for a particular purpose
or merchantability.

STORAGE AND DISPOSAL

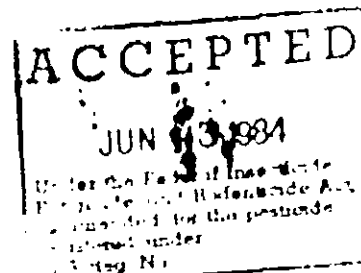
Keep container closed when not in use. Pesticide,
spray mixture, or rinse water that cannot be used
according to label instruction must be disposed of
according to applicable federal, state or local pro-
cedures.

Completely empty liner by shaking and tapping
sides and bottom to loosen clinging particles.
Empty residue into application equipment. Then
dispose of liner to a sanitary landfill or by incin-
eration if allowed by state and local authorities. If
drum cannot be reused, dispose of in the same
manner.

For information regarding incidents involving hu-
man and environmental exposure, call (412) 777-
8000 and ask for the Regulatory and Trade Affairs
Department.

Made in U.S.A.

DOCUMENT AVAILABLE





TK-100®

SPECIALTY
CHEMICALS
GROUP

TK-100 is a preservative which effectively controls mold and mildew on paint films and on natural and synthetic fibers. Chemically, TK-100 is 2-(4-thiazolyl)benzimidazole.*

TYPICAL PROPERTIES

Active ingredient	98.5% minimum
Appearance	Off-white, free-flowing powder
Bulk density (lb/ft ³)	Approximately 25
Melting point	300°C
Specific gravity	1.44
Inert ingredient	< 1.5%

ADVANTAGES

- Thermally stable—TK-100 is thermally stable for extended periods of elevated temperatures without loss of antifungal properties. It melts at 300°C and sublimes.
- Effective—TK-100 is active against a broad spectrum of fungi which can cause rot, deterioration, and odors in natural and synthetic carpet fibers and which attack surface coating films.
- Nonmetallic—TK-100 contains no metal such as mercury, arsenic, or tin.
- Toxicology—the acute oral toxicity (LD₅₀) of TK-100 is reported to be 3300 mg. Kg. for mice, 3100 mg. Kg. for rats, and greater than 3800 mg. Kg. for rabbits.
- Stable—TK-100 is stable and retains its activity over a broad pH range and does not decompose or hydrolyze on extended storage.

TYPICAL USE LEVELS

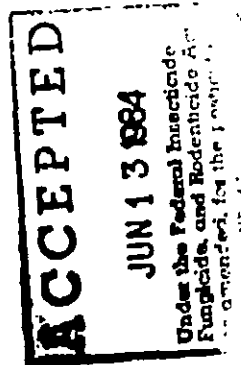
Laboratory tests and customer use show TK-100 is typically effective when applied in paint at 0.5-1.0 lbs. 100 gal. of paint. In-can preservatives, such as TEKTAMER® 38 or MERBAC-35®, should be added to provide bacterial protection during shelf storage.

Nylon Carpeting—Either spin finish or melt blending can be used. In spin finish the treatment level is 0.05%, while with melt blending the use level is 0.5%.

Canvas Textiles—Prepare a trough of water at pH 3.5 (or less) by addition of hydrochloric or other suitable acid. Add TK-100 to the trough at 500-3000 ppm active ingredient based on the finished fabric. Pass the fabric through the solution until thoroughly wetted. A wetting agent may be used to aid penetration. If deposition of pure TK-100 on the canvas is desired, wash the treated fabric with a 1% soda ash solution. Canvas can then be dried and processed normally.

PACKAGING

TK-100 is available in fiber drums containing 10 lb., 25 lb., or 48 lb. net.



SPECTRUM OF ACTIVITY

Fungi	Culture No.	MPTASOL TK-100 Inhibitory Concentration in ppm
Aspergillus fumigatus	ATCC 1640	100
Aspergillus niger	ATCC 6258	100
Penicillium chrysogenum	ATCC 10102	100
Trichoderma reesei	ATCC 10110	100
Penicillium marneffei	ATCC 10111	100

SOLUBILITY OF TK-100 IN VARIOUS SOLVENTS

Solvent	% of Solubility at room temperature
Acetone	100
Chloroform	100
N,N-Dimethylformamide (DMF)	100
Dimethyl sulfoxide (DMSO)	100
Ethanol	100
Isobutyl alcohol	100
Methanol	100
Methyl cellosolve	100
Methyl cellosolve acetate	100
Water	100

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* TK-100 is a registered trademark of Monsanto Company.
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STORAGE AND DISPOSAL

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Completely empty liner by shaking and tapping sides and bottom to loosen clinging particles. Empty residue into application equipment. Then dispose of liner in a sanitary landfill or by incineration if allowed by state and local authorities. If drum cannot be reused, dispose of in the same manner.

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

Waste resulting from use of this product may be disposed of on site or at an approved waste disposal facility.

BEST DOCUMENT AVAILABLE

NOTICE

Seller expressly warrants that the product conforms to its chemical description. THERE ARE NO WARRANTIES ASSOCIATED WITH THE SALE OF THIS PRODUCT, EITHER EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF FITNESS FOR A PARTICULAR PURPOSE OR MERCHANTABILITY.

Information concerning human and environmental exposure may be reviewed on the Material Safety Data Sheet and label for the product.

For additional information regarding incidents involving human and environmental exposure, call 412-777-8000 and ask for the Regulatory and Trade Affairs Department.



SUBS-DIARY OF MERCK & CO. INC

Produced and sold by Calgon Corporation, a wholly-owned subsidiary of Merck & Co., Inc. For further information on Merbac 35 and other fungicidal products, write to Calgon Corporation, 111 Central Avenue, Teaneck, New Jersey 07608. Phone: 201-268-6991.