

Preventol™ Preservative INSECTICIDE

N-128

FOR CONTROL OF CERTAIN INSECTS INFECTING, WOOD AND WOOD COMPOSITES, PLASTICS AND TEXTILES
ACTIVE INGREDIENT: Imidacloprid, 1-[(6-Chloro-3-pyridinyl)methyl]-N-nitro-2-imidazolidinimine -----98%
INERT INGREDIENTS -----2%
100%

KEEP OUT OF REACH OF CHILDREN

EPA REGISTRATION NUMBER: 39967-15

WARNING

EPA ESTABLISHMENT NUMBER: 3125-M-O-1

39967-15

FIRST AID:

If swallowed: Call 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 to do so by a Poison Control Center or doctor. Do not give anything by mouth to an unconscious person

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 eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after first 5 minutes, then continue rinsing eye. 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 by mouth-to-mouth, if possible. Call a Poison Control center or doctor for further treatment advice

Have the product container or label with you when calling a Poison Control Center or doctor or going for treatment.

NOTE TO PHYSICIAN: No specific antidote is available. Treat the patient symptomatically.

IN CASE OF EMERGENCY:

Bayer Corporation Pittsburgh Emergency Response Telephone Number: 412-923-1800

CHEMTREC: 800-424-9300

INTERNATIONAL: 703-527-3887

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

May be fatal if swallowed or inhaled. Do not breathe dust or vapor. Wear a mask or respirator jointly approved by the Mine Safety and Health Administration and the National Institute for Occupational Safety and Health. Wash thoroughly with soap and warm water after handling and before eating, drinking or using tobacco products. Remove contaminated clothing and wash before reuse.

ENVIRONMENTAL HAZARDS

Pesticide wastes are acutely toxic. 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 into sewer systems without previously notifying the local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA.

Net Contents: _____ Pounds

Bayer Chemicals
100 Bayer Road
Pittsburgh, PA 15205-9741

ACCEPTED
APR 23 2003
Under the Federal Insecticide,
Fungicide, and Rodenticide Act,
as amended, for the pesticide
Registered under
EPA Reg. No. 39967-15

DIRECTIONS FOR USE

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

Detailed information on chemical and physical properties and other formulating recommendations for Preventol™ Preservative Insecticide can be found in the product information sheet N-128. Obtain and read this information thoroughly before undertaking the formulation of Preventol™ Preservative Insecticide in order to prevent formulation hazards and insure a satisfactory finished product.

Preventol™ Preservative Insecticide is intended as a direct additive for the protection of insecticidal infestation in the following applications/uses:

- 1) Wood and wood-based composite products such as lumber, timber landscaping ties, fence posts, building and utility poles, pilings, decking, wood shingles, waferboard, fiberboard, particleboard, plywood and oriented-strand board for both above and below ground protection.
- 2) Plastics products such as PVC, polyurethane, polyethylene, polypropylene, natural and synthetic rubber, and other types of plastics products.
- 3) Textiles such as groundsheets, boat and car covers, awnings, tarpaulins, marine upholstery, seals, felts, and other textile applications/products.

PLEASE SEE PRODUCT INFORMATION SHEET N-128 FOR DETAILED DIRECTIONS FOR USE

STORAGE AND DISPOSAL

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

Pesticide storage: Store in a cool, dry place and in such a manner as to prevent cross contamination with other pesticides, fertilizers, food, and feed. Store in original container and out of reach of children, preferably in a locked storage area.

Pesticide disposal: Pesticide wastes are toxic. Improper disposal of excess pesticide, or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the hazardous waste representative at the nearest EPA Regional Office for guidance.

Container disposal: Do not use container in connection with food, feed, or drinking water. Completely empty container into the processing equipment. Then dispose of empty container in a sanitary landfill or by incineration, or, if allowed by State and Local authorities, by burning. If burned, stay out of smoke.

Handle and open container in a manner as to prevent spillage. If the container is leaking or material spilled for any reason or cause, carefully sweep the material into a pile and dispose of as directed for pesticides as above. Refer to Precautionary Statements on label for hazards associated with the handling of this material. In spill or leak incidents, keep unauthorized people away

4/23/2003

1/4

Product Information

Preventol™ Preservative INSECTICIDE

FOR THE PROTECTION OF WOOD, WOOD COMPOSITES, PLASTICS, AND TEXTILES AGAINST ATTACK BY
INSECTS

Bayer Product Code/Technical Information Sheet No. N-128
EPA Registration Number 39967-15
CAS Number [138261-41-3]

Chemical and Physical Data

Common Name:	Imidacloprid
Chemical Name:	1-[(6-chloro-3-pyridinyl)methyl]-N-nitro-2-imidazolidinimine
Minimum Purity (lower certified limit):	min. 95%
Physical Form:	solid
Appearance:	lumpy powder
Color:	cream/light yellow
Density:	1.54 g/cm ³
Molecular Weight:	255.7
Vapor Pressure (20°C):	approx. 1.5 - 2.0 x 10 ⁻⁹ mm Hg at 20°C
Solubility:	water 0.51 g/l at 20°C

Applications

Preventol™ Preservative Insecticide is a highly effective insecticide with a broad spectrum of activity. Especially, it has outstanding effectiveness against various types of termites such as *Reticulitermes santonensis*.

Owing to its solubility, ease of addition, stability and compatibility with other components such as fungicides, Preventol™ Preservative Insecticide can be incorporated into both solvent-based and water-based systems.

Spectrum of Activity

The following examples illustrate the outstanding effectiveness of Preventol™ Preservative Insecticide:

Toxicity values (threshold values concerning the effectiveness of the product) in kg/m³ wood

1.	<i>Reticulitermes santonensis</i> determined according to EN 117	without aging:	0.00014 - 0.0014
		after EN 73:	0.00091 - 0.0044
		after EN 84:	0.024 - 0.060
2.	<i>Hyloterpes bajulus</i> determined according to EN 47 (egg stage larvae)	after 4 weeks:	0.011 - 0.053
0.0108		after 12 weeks	0.00

Preventive application against *Hyloterpes bajulus* according to EN 46; testing period 12 weeks

1.	water based primer, dosage rate 0.05%	without aging:	mortality 100%
		after EN 73:	mortality 100%
		after EN 84:	mortality 100%
2.	water based stain, dosage rate 0.05%	without aging:	mortality
100%		after EN 73:	mortality 100%
		after EN 84:	mortality 100%

Directions for Use

Wood and Wood-based Composite Products

GENERAL: Preventol TM Preservative Insecticide is recommended for the preservation of wood and wood-based composite products, such as lumber, timber landscaping ties, fence posts, building and utility poles, pilings, decking, wood shingles, waferboard, fiberboard, particleboard, plywood and oriented-strand board when it is important to prevent the attack of insects, including termites, on the product. Composites are used in the following applications: millwork, including door and window frames; exterior siding; construction lumber; and exterior wood. Composite wood treated with Preventol TM Preservative Insecticide does not change in appearance and may be painted when dry.

Preventol TM Preservative Insecticide may be applied into wood through a number of methods, including:

- a) Blending Preventol TM Preservative Insecticide with an appropriate solvent, water repellent and injecting the solution into the wood through vacuum pressure in a closed vacuum cylinder.
- b) Metering Preventol TM Preservative Insecticide onto the dried wood flakes, fibers, etc. immediately before the blender. The Preventol TM Preservative Insecticide is then mixed with flakes in the blender.
- c) Mixing Preventol TM Preservative Insecticide with the wood flakes in the blender.
- d) Mixing Preventol TM Preservative Insecticide with the adhesive or wax, which is subsequently applied to the flakes in the blender.

The method of incorporation of Preventol TM Preservative Insecticide will depend on the specific manufacturing process and wood species for the composite.

The suggested use level is 0.0003 to 0.005 lbs. Preventol TM Preservative Insecticide per cubic foot of wood.

Plastics Preservation

GENERAL: Preventol TM Preservative Insecticide is recommended for the insecticidal preservation of plastics such as PVC, polyurethane, polyethylene, polypropylene, natural synthetic rubber, and other plastics. These plastics are used in the following applications: boat covers, carpet backing, convertible car tops, flooring, hoses, automotive underbody coatings, pond liners, roofing foils, wall coverings, cable sheeting, film and sheet of agricultural products, and other applications. Preventol TM Preservative Insecticide is recommended for film and sheeting, extruded profiles, plastisols, molded goods, organosols, fabric coatings and similar systems requiring an effective termiticidal compound.

Preventol TM Preservative Insecticide should be used at an application rate of 0.01 - 1% Preventol TM Preservative Insecticide based on the weight of the finished article. To insure uniform distribution in the end product it is recommended that Preventol TM Preservative Insecticide be pre-blended with plasticizer or other liquid ingredient of the finished formulation before the final production step, but it can also be fed directly into an extruder, roller mill, colander, or other plastic manufacturing device. The method of incorporation of Preventol TM Preservative Insecticide be pre-dissolved in a suitable solvent. The method of incorporation of Preventol TM Preservative Insecticide is pre-dissolved in a suitable solvent. The method of incorporation of Preventol TM Preservative Insecticide will depend on the specific manufacturing process and plastic to be protected; the treatment is recommended up to a temperature of 350°F and is limited only by decomposition of the substance.

SOME OF THE ABOVE USES ARE SOIL CONTACT, AND ALL OF THEM NON FUMIGATION TREATMENTS

Textiles

GENERAL: Preventol TM Preservative Insecticide is recommended for use as a termiticide in textiles such as tents and groundsheets, boat and car covers, awnings, tarpaulins, marine upholstery, seals, felts, and other applications. Preventol TM Preservative Insecticide is recommended to be used at an application rate of 0.01 - 1% Preventol TM Preservative Insecticide, based on weight of the finished products. The application rate depends on the conditions of use, the weight of the textiles, the ultimate use of the end-product and the degree of exposure. To ensure uniform distribution in the end-product it is recommended that Preventol TM Preservative Insecticide will depend on the specific manufacturing process and the type of textile to be protected. Heavy and close-woven fabrics should be dipped several times to ensure adequate penetration.

4/4

SOME OF THE ABOVE USES ARE SOIL CONTACT, AND ALL OF THEM NON FUMIGATION TREATMENTS

INFORMATION ABOUT SAFETY AND HANDLING AND ON ECOLOGICAL AND TOXICOLOGICAL BEHAVIOR IS GIVEN IN OUR MATERIAL SAFETY DATA SHEET AND IN OUR SUMMARY OF TOXICITY AND ECOTOXICITY.

Bayer Chemicals
100 Bayer Road
Pittsburgh, PA 15205-9741

The conditions of your use and application of 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 at least must include testing to determine suitability from a technical as well as health, safety and environmental standpoint. Such testing has not necessarily been done by Bayer Chemicals. All information is given without warranty or guarantee. It is expressly understood and agreed that the customer assumes and hereby expressly releases Bayer 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 Bayer. 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.