

FORMALIN FUNGICIDE

COMMERCIAL

SOLUTION

WARNING POISON

READ THE LABEL BEFORE USING

KEEP OUT OF REACH OF CHILDREN

GUARANTEE: formaldehyde 37%

REGISTRATION NO. 6998
PEST CONTROL PRODUCTS ACT

NET CONTENTS: 205 L

UNITED AGRI PRODUCTS CANADA INC.
789 Donnybrook Drive
Dorchester, Ontario
N0L 1G5
1-800-265-4624

IN CASE OF EMERGENCY DUE TO A MAJOR SPILL, FIRE OR POISONING
INVOLVING THIS PRODUCT CALL DAY OR NIGHT, 1-800-561-8273

DIRECTIONS FOR USE

MUSHROOM HOUSE CLEANOUT: Heat empty house to at least 18°C and wash down with a solution of 2-4 L of FORMALIN FUNGICIDE in 100 L of water. Maintain this temperature and keep the house closed for at least 24 hours after treating. Treat empty houses only.

CASING SOIL: To control fungi, mix 20-25 L of FORMALIN FUNGICIDE in 100 L of water. Sprinkle the solution over the soil while mixing, using 3.6-4.2 L of solution per m³ of casing soil. Mix thoroughly and keep the soil covered for at least 24 hours after treating. Air and soil temperature must be at least 18°C. All odour of FORMALIN FUNGICIDE must be gone before soil should be applied to the beds.

MUSHROOM EQUIPMENT (baskets, tools, trucks, boots, hoses, etc.): Use 100 mL of FORMALIN FUNGICIDE in 10 L of water to control fungi. Apply a spray or as a dip. Do not let the solution contact mushrooms.

COMPOSTING YARDS and CONCRETE SLABS: Use 4 L of FORMALIN FUNGICIDE in 100 L of water to control fungi. Apply as a drench, using 100 L of this solution per 10 m² of area.

DISEASED AREAS ON MUSHROOM BEDS: Controls mildew (*Dactylium* and *Trichoderma*), and lipstick mold (*Geotrichum*). Before treatment, pick off all mushrooms and allow casing soil to dry thoroughly. Temperature of house should be at least 18°C. Do not water and inoculate with spawn until all odour of formaldehyde has disappeared. Use 430 mL of FORMALIN FUNGICIDE in 10 L of water. Drench diseased areas on beds, using 21-28 L of this solution for every 1 m³ of diseased bed. Four hours after treatment remove mushrooms from the treated area and discard. No further production from treated areas of mushrooms can be expected.

GENERAL DISINFECTION: Use at the rate of 100 mL in 10 L of water for disinfecting chicken houses, barns, etc. Clean the area to be treated thoroughly, then apply the solution with an old broom or a spray pump, the latter giving the best penetration into cracks and crevices.

POTATO DISEASES - Common scab, Black scurf and Rhizoctonia:

COLD TREATMENT: Use at the rate of 50 mL in 10 L of water. Soak uncut tubers for 2 hours in this solution. **HOT TREATMENT** (for seeds only): Use at the rate of 100 mL per 10 L of water. Heat this solution to 49°-52°C and immerse uncut tubers for 3 or 4 minutes, cover for one hour, and let dry before cutting and planting.

SMUTS IN GRAIN:(with the exception of loose smuts of barley and wheat, and in hull-less oats).

1. Heap the grain on the floor and sprinkle with a solution of 30 mL of FORMALIN FUNGICIDE in 10L of water. Mix thoroughly until all grains are wet. Cover for 4 hours or overnight. Sow as soon as possible.

2. For Smut balls, immerse the grain for 5 minutes in the same solution.
3. For Smut in oats, spray the seed grain using 50% FORMALIN FUNGICIDE and 50% water. Turn the grain over a few times while spraying. After treating the grain, cover it for 3-5 hours or overnight. Sow as soon as possible.

BULB DIP FOR NEMATODE CONTROL:

1. Hot water FORMALIN FUNGICIDE treatment: Immerse the bulbs in a solution containing 50 mL per 10 L of water for 4 hours at the following temperatures: GLADIOLUS BULBS: 57°-58°C. If the bulbs are severely infested they should be presoaked for 2 hours in water at 24°C to remove inactivated nematodes. HYACINTH, IRIS and NARCISSUS BULBS: 43°-44°C. IMPORTANT: TULIP BULBS may be damaged easily and require special care. 100 L of this mixture will treat 25-30 kg of bulbs. The bulbs must be packed loosely to allow for uniform heating. The temperature of the bath should not vary more than 1°C throughout the treatment. The bulbs must be dormant and should not be treated until at least 2 weeks after harvest. They should be planted within 2-4 weeks after treatment. Follow these instructions carefully to avoid injury to bulbs. For further information, consult local agricultural authorities.
2. Sanitation: Wash thoroughly all tools and equipment which comes into contact with infested soil and bulbs with a solution containing 1 part of FORMALIN FUNGICIDE and 9 parts of water.

FOR DISINFECTION OF POULTRY HOUSES BY FUMIGATION: Kills molds and many organisms which cause respiration diseases. Place an empty, open-topped 205 L drum in the centre of the building on small supports clear of the floor. Close all windows, ventilators, and doors. Spray all interior walls with water. For a 2000 m³ building, place 3 kg of Potassium Permanganate in the bottom of the drum, add 10 L FORMALIN FUNGICIDE and leave the building immediately. Leave sealed for 12 hours. Ventilate thoroughly for several hours before re-use.

RESISTANCE MANAGEMENT RECOMMENDATIONS For resistance management, please note that FORMALIN FUNGICIDE contains a Group U fungicide. Any fungal population may contain individuals naturally resistant to FORMALIN FUNGICIDE and other Group U fungicides. A gradual or total loss of pest control may occur over time if these fungicides are used repeatedly in the same fields. Other resistance mechanisms that are not linked to site of action but specific for individual chemicals, such as enhanced metabolism, may also exist. Appropriate resistance-management strategies should be followed.

To delay fungicide resistance: Where possible, rotate the use of FORMALIN FUNGICIDE or other Group U fungicides with different groups that control the same pathogens.

Use tank mixtures with fungicide from a different group when such use is permitted. Fungicide use should be based on an IPM program that includes scouting, historical information related to pesticide use and crop rotation and considers cultural, biological and other chemical control practices.

Monitor treated fungal populations for resistance development.

If disease continues to progress after treatment with this product, do not increase the userate. Discontinue use of this product and switch to another fungicide with a different tar-get site of action, if available.

Contact your local extension specialist or certified crop advisors for any additional pesticide resistance-management and/or IPM recommendations for specific crops and pathogens.

For further information and to report suspected resistance, contact Technical Service, United Agri Products Canada Inc., 1-800-265-4624 or at www.uap.ca.

PRECAUTIONS

KEEP OUT OF REACH OF CHILDREN.

Always keep containers tightly closed to prevent escape of the formaldehyde and consequent loss of strength. Do not store at temperatures below 15°C as precipitation may occur. Causes irritation of skin, eyes, nose, and throat. Avoid exposure to fumes and contact with skin, eyes, and clothes. Avoid prolonged or repeated contacts and breathing of vapour. Leave the room as soon as possible after treating or wear a suitable NIOSH/MSHA approved respirator with organic vapour cartridge or self-contained breathing apparatus to prevent inhaling of the gas fumes.

Wear chemical splash goggles to prevent eye contact. If splashing is likely, full face shield should be worn. Wear protective rubber gloves, apron and boots to prevent skin contact.

Use with adequate ventilation. Keep away from heat, fire, and sparks or open flame. Do not cut, puncture or weld on or near the container when full or empty. Wash with soap and water after handling and before eating, drinking, or smoking. Do not contaminate food, feed, or any body of water.

If this pest control product is to be used on a commodity that may be exported to the U.S. and you require information on acceptable residue levels in the U.S., visit CropLife Canada's website at: www.croplife.ca.

FIRST AID

IF IN EYES, 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 centre or doctor for treatment advice.

IF ON SKIN OR CLOTHING, take off contaminated clothing. Rinse skin immediately with plenty of water for 15–20 minutes. Call a poison control centre or doctor for treatment advice.

IF SWALLOWED, call a poison control centre 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 centre or doctor. Do not give anything by mouth to an unconscious person.

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 poison control centre or doctor for further treatment advice.

Take container, label or product name and Pest Control Product Registration Number with you when seeking medical attention.

TOXICOLOGICAL INFORMATION

Vapors are very irritating to the eyes, nose, and upper respiratory tract; high concentrations may produce edema or spasm of the larynx. Severe obstructive tracheobronchitis may result from inhalation. Contact with vapor or solution causes the skin to become white, rough, hard, and anesthetic.

DISPOSAL

1. Triple- or pressure-rinse the empty container. Add the rinsings to the spray mixture in the tank.
2. Follow provincial instructions for any required additional cleaning of the container prior to its disposal.
3. Make the empty container unsuitable for further use.
4. Dispose of the container in accordance with provincial requirements.
5. For information on the disposal of unused, unwanted product, contact the manufacturer or the provincial regulatory agency. Contact the manufacturer and the provincial regulatory agency in case of a spill, and for clean-up of spills.

NOTICE TO USER: This pest control product is to be used only in accordance with the directions on this label. It is an offence under the *Pest Control Products Act* to use this product in a way that is inconsistent with the directions on the label. The user assumes the risk to persons or property that arises from any such use of this product.