

2016-2320
2016-08-08

Group	U	Fungicide
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FORMALIN FUNGICIDE

COMMERCIAL

SOLUTION

DANGER - POISON

DANGER – CORROSIVE TO EYES

DANGER - SKIN IRRITANT

POTENTIAL SKIN SENSITIZER

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

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

LOVELAND PRODUCTS CANADA INC.
789 Donnybrook Drive
Dorchester, Ontario
N0L 1G5
1-800-328-4678

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2016-2320
2016-08-08

DIRECTIONS FOR USE

An appropriate pesticide applicator certificate or licence recognized by the provincial/territorial pesticide regulatory agency where the pesticide application is to occur is required for all fumigation uses. The provincial/territorial pesticide regulatory agency may also require a pesticide applicator certificate or licence for other uses.

DO NOT contaminate irrigation or drinking water supplies or aquatic habitats by cleaning of equipment or disposal of wastes.

DO NOT discharge effluent containing this product into sewer systems, lakes, streams, ponds, estuaries, oceans or other waters.

All surfaces should be washed prior to use of formaldehyde. DO NOT apply formaldehyde to surfaces that may come in contact with food. Surfaces that might come in contact with animal feed or water should be washed with soap or detergent post application.

Warning signs must be posted on, or in the vicinity, of all entrances. Signs must state “DANGER – FORMALDEHYDE” with skull and crossbones symbol, date and time of application, and contact information of applicator. Signs may not be removed until ventilation is complete and the premise is safe for re-entry.

Ventilation must achieve a total of 12 air-changes prior to re-entry by unprotected persons.

MUSHROOM HOUSE CLEANOUT:

For best results, this product must be freshly prepared before using.

Application is limited to empty mushroom houses that are free of all mushrooms, persons, growing media, equipment, debris, etc.

Apply FORMALIN FUNGICIDE at a maximum rate of 0.19 g a.i./L.

Mushroom houses must be securely locked until ventilation is complete and the mushroom house is safe for re-entry.

Heat empty house to at least 18°C and wash down with a solution of 47.5 mL 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.

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.

2016-2320
2016-08-08

GENERAL DISINFECTION:

For best results, this product must be freshly prepared before using.

Application is limited to indoor areas that are free of all persons, animals, soil, produce, equipment, debris, etc.

Apply FORMALIN FUNGICIDE at a maximum rate of 0.19 g a.i./L.

Use at the rate of 4.75 mL in 10 L of water for disinfecting chicken houses, barns, etc. Clean the area to be treated thoroughly, then apply the solution with a spray pump.

BULB DIP FOR NEMATODE CONTROL:

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.

FOR DISINFECTION OF POULTRY HOUSES BY FUMIGATION:

Application is limited to empty poultry houses that are free of all persons, animals, soil, produce, equipment, debris, etc.

Poultry houses must be securely locked during fumigation and until ventilation is complete and the house is safe for re-entry.

An eight meter prohibited entry zone must be established extending from, and surrounding, the building being fumigated. Prohibited entry zone must be clearly identified with cones and cautionary tape. No persons except for properly equipped handlers are permitted within the prohibited entry zone. The prohibited entry zone must remain until ventilation is complete and the building is safe for re-entry.

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

2016-2320
2016-08-08

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, 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/bactericide 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/bactericides from a different group that is effective on the target pathogen when such use is permitted.
- Fungicide use should be based on an integrated disease management program that includes scouting, historical information related to pesticide use and crop rotation and considers host plant resistance, impact of environmental conditions on disease development, disease thresholds, as well as cultural, biological and other chemical control practices.
- Where possible, make use of predictive disease models to effectively time fungicide applications.
- Monitor treated fungal/bacterial populations for resistance development. Notify Loveland Products Canada, Inc. if reduced sensitivity of the pathogen to FORMALIN FUNGICIDE is suspected.

If disease continues to progress after treatment with this product, do not increase the use rate. Discontinue use of this product, and switch to another fungicide with a different 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

2016-2320
2016-08-08

pathogens.

For further information and to report suspected resistance, contact Technical Service, Loveland Products Canada, Inc. at 1-800-328-4678 or at www.uap.ca.

PRECAUTIONS

KEEP OUT OF REACH OF CHILDREN.

Fatal or Poisonous if swallowed.

Extremely hazardous by skin contact. DO NOT get on skin.

CORROSIVE to the eye. DO NOT get in eyes.

CORROSIVE to the skin. DO NOT get on skin.

Potential skin sensitizer

All handlers must wear coveralls over a long-sleeved shirt and long pants, chemical resistant gloves and footwear, chemical resistant headgear (during overhead application) and a full face respirator. During cleaning of equipment or mixing/loading product a chemical-resistant apron must also be worn.

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.

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.

2016-2320

2016-08-08

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.