

SAFETY DATA SHEET



In case of emergency Call
CANUTEC at 613-996-6666

Effective Date: 1-7-09
Product Code: 121101

PRODUCT: DITHANE™ DG 75 FUNGICIDE

This product is regulated under authority of the Pest Control Products Act

1. PRODUCT AND COMPANY IDENTIFICATION:

PRODUCT: Dithane DG 75 Fungicide
USE: Fungicide for use on fruits, vegetables, ornamentals and potatoes

COMPANY/SUPPLIER IDENTIFICATION:

Dow AgroSciences Canada Inc.
Suite 2100, 450 – 1 ST SW
Calgary, Alberta
Canada, T2P 5H1
www.dowagro.ca

INGESTION: Call a 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 the poison control center or doctor. Never give anything by mouth to an unconscious person.

INHALATION: Move person to fresh air; if effects occur, consult a physician.

NOTE TO PHYSICIAN: No specific antidote. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient.

2. HAZARDOUS IDENTIFICATIONS:

EMERGENCY OVERVIEW

Color: Yellow to brown
Odor: Musty
Appearance: Granules

Health/Environmental Hazards: May cause eye irritation with corneal injury. May cause skin irritation. Toxic to aquatic organisms.

EMERGENCY PHONE NUMBER: 613-996-6666

5. FIRE FIGHTING MEASURES:

FLASH POINT: Not applicable (granule)

METHOD USED: Not applicable

FLAMMABLE LIMITS

LFL: Not determined

UFL: Not determined

EXTINGUISHING MEDIA: When product is involved in a fire use carbon dioxide, dry chemical, water spray, or foam. Contain run-off. Use water spray to cool containers exposed to fire.

3. COMPOSITION/INFORMATION ON INGREDIENTS:

Mancozeb: [[1,2-ethanediy]bis[carbamo-dithioato]](2-)]manganese mixture with [[1,2-ethanediy]bis[carbamo]dithioato]](2-)]-zinc	CAS # 8018-01-7	75%
Balance		25%

FIRE & EXPLOSION HAZARDS: Particulates can become airborne. Combustion generates toxic fumes including the following: hydrogen sulfide, sulfur oxides, and carbon oxides.

FIRE-FIGHTING EQUIPMENT: Wear positive pressure self-contained breathing apparatus with full protective clothing. Remain upwind. Avoid breathing smoke.

4. FIRST AID:

EYES: Immediately flush eyes with water; remove contact lenses, if present, after the first 5 minutes, then continue flushing eyes for at least 15 minutes. Obtain medical attention without delay, preferably from an ophthalmologist.

SKIN: Remove material from skin immediately by washing with soap and plenty of water. Remove contaminated clothing and shoes while washing. Seek medical attention if irritation persists. Wash clothing before reuse. Discard items, which cannot be decontaminated, including leather articles such as shoes, belts, and watchbands.

6. ACCIDENTAL RELEASE MEASURES:

ACTION TO TAKE FOR SPILLS: Sweep up small spills and place in a suitable container for disposal. Do not allow spilled material to contaminate water supplies. For large spills, dike and barricade the affected area and contact CANUTEC at 613-996-6666 and local authorities.

Appropriate protective equipment must be worn when handling a spill of this material. If exposed to material during clean-up operations, remove all contaminated clothing promptly. Wash all exposed skin areas with soap and water immediately after exposure. Thoroughly launder clothing before reuse. Do not take clothing home to be laundered.

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7. HANDLING AND STORAGE:

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:

HANDLING: Do not handle material near food, feed or drinking water. Avoid high concentrations of dust in air and accumulation of dust on equipment. An airborne dust of this material can create a dust explosion. When handling and processing this material local exhaust ventilation may be required to control dust and reduce exposure to vapors. To prevent dust explosions employ bonding and grounding for operations capable of generating static electricity. Protect all equipment from explosions by following the NFPA 68 & 69 guidelines.

STORAGE: Do not store this material near food, feed or drinking water. Store in a well-ventilated area. Store in a dry area. DO NOT ALLOW Mancozeb to become wet or overheated in storage; decomposition, impaired activity or fire may result. Material is combustible; do not ignite. Store bagged material only on pallets no more than 3 high. Provide access aisles for each 2 rows. Loose bags should not be stacked more than 2x2x2 meters. Dense packing of unvented stacks of bags may lead to product decomposition posing a fire hazard. Decomposition produces a foul odor. Check for hot containers and immediately remove to open areas for disposal. Keep container tightly closed when not in use.

OTHER: Completely empty bag into application equipment. Dispose empty bag in a sanitary landfill or by incineration as allowed by state and local authorities. Avoid inhalation of smoke if incinerated.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION:

These precautions are suggested for conditions where the potential for exposure exists. Emergency conditions may require additional precautions.

EXPOSURE GUIDELINES:

Mancozeb: Dow AgroSciences Industrial Hygiene Guide is 1 mg/M³, dermal sensitizer.

ENGINEERING CONTROLS: Provide general and/or local exhaust ventilation to control airborne levels below the exposure guideline.

RECOMMENDATIONS FOR MANUFACTURING, COMMERCIAL BLENDING, AND PACKAGING WORKERS:

EYE/FACE PROTECTION: Use chemical goggles.

SKIN PROTECTION: Use gloves chemically resistant to this material when prolonged or frequently repeated contact could occur.

RESPIRATORY PROTECTION: Atmospheric levels should be maintained below the exposure guideline. If respiratory irritation is experienced, use a NIOSH approved air-purifying respirator for dust.

APPLICATORS AND ALL OTHER HANDLERS: Refer to the product label for personal protective clothing and equipment.

9. PHYSICAL AND CHEMICAL PROPERTIES:

APPEARANCE: Yellow to brown granules

ODOR: Musty

DENSITY: Not applicable

BOILING POINT: Not applicable

SOLUBILITY IN WATER: Dispersible

10. STABILITY AND REACTIVITY:

STABILITY: (CONDITIONS TO AVOID) Material is stable under normal storage conditions. Keep away from moisture, heat or flame.

INCOMPATIBILITY: (SPECIFIC MATERIALS TO AVOID) Avoid contact with oxidizing agents and acids.

HAZARDOUS DECOMPOSITION PRODUCTS: Thermal decomposition may yield the following: carbon disulfide and hydrogen sulfide.

HAZARDOUS POLYMERIZATION: Not known to occur.

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11. TOXICOLOGICAL INFORMATION:

POTENTIAL HEALTH EFFECTS: This section includes possible adverse effects, which could occur if this material is not handled in the recommended manner.

EYES: May cause severe eye irritation with corneal injury.

SKIN: Prolonged contact may cause slight skin irritation with local redness. Skin contact may cause an allergic skin reaction in a small proportion of individuals. Prolonged skin contact is unlikely to result in absorption of harmful amounts. Based on information for a similar material, the LD₅₀ for skin absorption in rabbits is >5000 mg/kg.

INGESTION: Very low toxicity if swallowed. Harmful effects not anticipated from swallowing small amounts. Based on information for a similar material, the oral LD₅₀ for rats is >5000 mg/kg.

INHALATION: Dust may cause irritation of the upper respiratory tract (nose and throat) and lungs. For mancozeb, the LC₅₀ for rats is >5.14 mg/L for 4 hours.

SYSTEMIC (OTHER TARGET ORGAN) EFFECTS: Mancozeb, in animals, effects have been reported on the following organs: thyroid, liver, nervous system, and eyes.

CANCER INFORMATION: Mancozeb has caused cancer in laboratory animals.

TERATOLOGY (BIRTH DEFECTS): Mancozeb has caused birth defects in laboratory animals only at doses toxic to the mother.

REPRODUCTIVE EFFECTS: Mancozeb did not interfere with reproduction in laboratory animal studies.

MUTAGENICITY: For mancozeb, in-vitro genetic toxicity studies were predominantly negative and animal genetic toxicity studies were negative.

12. ECOLOGICAL INFORMATION:

ENVIRONMENTAL FATE:

MOVEMENT & PARTITIONING:

No relevant information found.

DEGRADATION & PERSISTENCE:

Based largely or completely on information for the major component(s).

Chemical degradation (hydrolysis is expected in the environment.

Degradation is expected in the soil environment.

ECOTOXICOLOGY:

Based largely or completely on information for mancozeb. Material is very highly toxic to aquatic organisms on an acute basis (LC₅₀ or EC₅₀ is <1 mg/L in most sensitive species tested).

Material is practically non-toxic to birds on a dietary basis (LC₅₀ is >5000 ppm).

Material is practically non-toxic to birds on an acute basis (LD₅₀ is >2000 mg/kg).

13. DISPOSAL CONSIDERATIONS:

DISPOSAL METHOD: If wastes and/or containers cannot be disposed of according to the product label directions, disposal of this material must be in accordance with your local or area regulatory authorities.

This information presented below only applies to the material as supplied. The identification based on characteristic(s) or listing may not apply if the material has been used or otherwise contaminated. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations.

If the material as supplied becomes a waste, follow all applicable regional, national and local laws and regulations.

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14. TRANSPORT INFORMATION:

TRANSPORTATION OF DANGEROUS GOODS INFORMATION:

TDG Small container
NOT REGULATED

TDG Large container
NOT REGULATED

15. REGULATORY INFORMATION:

Pest Control Products Act registration number: 29221
For information phone: 800 667 3852

Notice: The information contained in this Safety Data Sheet ("SDS") is current as of the effective date shown in Section 1 of this SDS and may be subject to amendment by Dow AgroSciences Canada Inc. ("DASCI") at any time. DASCI accepts no liability whatsoever which results in any way from the use of SDS that are not published by DASCI, or have been amended without DASCI express written authorization. Users of this SDS must satisfy themselves that they have the most recent and authorized version of this SDS and shall bear all responsibility and liability with respect thereto. Any conflict or inconsistencies as to the contents of this SDS shall be resolved in favor of DASCI by the most recent version of the SDS published by DASCI.

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16. Other Information:

National Fire Code classification: non applicable

NFPA ratings:

Health: 2

Flammability: 1

Reactivity: 0

SDS Version: New