

Material Safety Data Sheet



Transportation and Medical Emergency Phone: 1-800-535-5053
(INFOTRAC)
General Phone: 317-580-8282

EPA Reg. Number: 66330-35-67690
Effective Date: 2/28/03

Decree® 50 WDG Fungicide

SePRO Corporation Carmel, IN 46032

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT: Decree® 50 WDG Fungicide

COMPANY IDENTIFICATION:

SePRO Corporation
11550 North Meridian Street, Suite 600
Carmel, IN 46032
www.sepro.com

2. COMPOSITION / INFORMATION ON INGREDIENTS

Decree: N-(2,3-dichloro-4-hydroxyphenyl)
-1-methyl-cyclohexanecarboxamide
CAS # 126833-17-8.....50.0%
Inert Ingredients,** Total.....50.0%

** Inert ingredients are any substance other than an active ingredient contained in this product. Only those inert ingredients considered hazardous are listed. The identities of any other substance are withheld because they are considered trade secrets. Specific information on the inert ingredients for the management of exposures, spills, or safety assessments can be obtained by the treating physician or nurse by calling INFOTRAC 1-800-535-5053.

3. HAZARDOUS IDENTIFICATIONS

EMERGENCY OVERVIEW

Caution: Avoid contact with eyes, skin, or clothing. Harmful if swallowed, inhaled or absorbed through skin. Avoid breathing dust. Keep out of reach of children.

EMERGENCY TELEPHONE NUMBER:
(800) 535-5053

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

EYE: This product is slightly irritating to the eyes.

SKIN: This product is slightly irritating to the skin. This product is not a skin sensitizer. If absorbed through the skin, this substance is considered practically non-toxic to internal organs.

INGESTION: This product is considered practically non-toxic if swallowed.

INHALATION: This product is considered practically non-toxic if inhaled.

CHRONIC TOXICITY (Including Cancer): After repeated oral administration of high doses to Technical material, no evidence of cumulative toxicity was seen in rats, mice and dogs. It was not carcinogenic to animals.

TERATOLOGY (Birth Defects) INFORMATION: No development or maternal abnormalities were detected in rats exposed to technical material.

REPRODUCTION INFORMATION: No reproductive toxicity was observed in rats exposed to Technical material.

For complete discussion of the toxicology data from which this evaluation was made, refer to Section 11.

4. FIRST AID

EYES: Flush eyes immediately with plenty of fresh water for at least 15 minutes while holding the eyelids open. Remove contact lenses if worn. Call a physician if irritation persists.

SKIN: Remove contaminated clothing, wash skin with plenty of soap and water. Discard contaminated non-waterproof shoes and boots. Wash contaminated clothing. Call a physician if irritation persists.

INGESTION: If swallowed, call a doctor or get medical attention. Do not induce vomiting. Promptly drink a large quantity of milk, egg whites, gelatin solution, or if these are not available drink large quantities of water. Avoid alcohol.

INHALATION: If respirator discomfort or irritation occurs, move the person to fresh air. See a doctor if discomfort or irritation continues.

NOTES TO PHYSICIAN: Provide basic first aid measures, decontaminate individual and treat symptomatically.

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5. FIRE FIGHTING MEASURES

FLASH POINT: N/A, Solid

Method Used: N/A

FLAMMABLE LIMITS:

LFL: NDA

UFL: NDA

AUTO-IGNITION TEMPERATURE: Spontaneous ignition temperature = 295°C

EXTINGUISHING MEDIA: CO₂, dry chemical, foam, water fog, sand.

NFPA RATINGS: Health NDA; Flammability NDA, Reactivity NDA; Special NDA (Least-0, slight-1, Moderate-2, High-3, Extreme-4). These values are obtained using the guidelines or published evaluations prepared by the National Fire Protection Association, NFPA.

FIRE FIGHTING INSTRUCTIONS: Wear breathing protection (respirator). Keep away from sources of ignition. No smoking. Keep container tightly closed. Prevent dust formation and deposits.

Products of combustion from fires involving this material may be toxic. Avoid breathing smoke and mists. Avoid personal and equipment contact with fallout and runoff. Minimize the amount of water used for fire fighting. Do not enter any enclosed area without full protective equipment, including self-contained breathing equipment. Contain and isolate runoff and debris for proper disposal. Decontaminate personal protective equipment and fire fighting equipment before reuse. Read the entire document.

HAZARDOUS COMBUSTION PRODUCTS: Does not liberate gases in hazardous amounts in case of contact with water or moist air. Does not undergo spontaneous combustion.

6. ACCIDENTAL RELEASE MEASURES

FOR SPILLS ON LAND:

CONTAINMENT: Avoid runoff into storm sewers and ditches that lead to waterways.

CLEANUP: Clean up spill immediately. Place product and any contaminated cleanup materials in a chemical waste container. Wash area with soap and water. Pick up sash liquid with additional absorbent and place in a disposable container.

FOR SPILLS ON WATER:

CONTAINMENT: Stop or reduce contamination of any water. Isolate contaminated water.

CLEANUP: Remove contaminated water for removal or treatment.

7. HANDLING AND STORAGE

DO NOT USE OR STORE near flame, sparks or hot surfaces. **USE ONLY IN WELL VENTILATED AREA.** Keep container closed. **DO NOT** weld, heat or drill container. Replace cap or bung. Before entry into confined spaces that may have contained hazardous material, determine concentrations and take appropriate measures for personal protection.

Keep pesticide in original container. Store in a dry place to preserve product quality. Do not store or transport near food or feed. This product is dust exposable, and exhibits a lower exposable limit of 90 g/m³.

8. EXPOSURE CONTROL/PERSONAL PROTECTION

EYE PROTECTION: Avoid contact with your eyes. Eye contact can be avoided by wearing chemical eyewear.

RESPIRATORY/MENTILATION REQUIREMENTS: This material is not expected to present an inhalation hazard. However, the use of approved respiratory protection is recommended (fine dust mask). Use this material only in well-ventilated areas.

SKIN PROTECTION: Avoid contact with skin or clothing. Wearing protective clothing including gloves should minimize skin contact.

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9. PHYSICAL AND CHEMICAL PROPERTIES

BOILING POINT: N/A, Solid

SOLUBILITY IN WATER: Varies between pH 3 and 9 from soluble to very soluble. Soluble in most polar organic solvents (pure a.i.)

VAPOR PRESSURE (pure a.i.): 4×10^{-7} Pa at 20°C

SPECIFIC GRAVITY: N/A

APPEARANCE: Beige, granule

BULK DENSITY: Approximately 164 ml/100g (fluffed).
Approximately 154 ml/100g (jolted)

ODOR: Weak, not characteristic

pH: 8.3 in 1% solution of water

MELTING POINT: 153<°C

SPECIFIC GRAVITY: N/A

DESSOCIATION CONSTANT (pka) (pure a.i.): 7.3

OCTANOL/WATER PARTITION COEFFICIENT (pure a.i.): $Pow = 3.2 \times 10^3$ at pH 7 at 20°C

MISCIBILITY: N/A

CORROSION CHARACTERISTICS: Not corrosive to composite foil or paper bag used in packaging.

10. STABILITY AND REACTIVITY

CHEMICAL STABILITY: (CONDITIONS TO AVOID)
Stable for 52 weeks at ambient temperature.

INCOMPATIBILITY: NDA

HAZARDOUS DECOMPOSITION PRODUCTS: NDA

HAZARDOUS POLYMERIZATION: NDA

IMPACT EXPLODABILITY: Not an explosive.

OXIDATION/REDUCTION PROPERTIES: Not an oxidizer.

11. TOXICOLOGICAL INFORMATION

ACUTE (Product Specific Information):

EYE IRRITATION: Slightly irritating in rabbits.

SKIN IRRITATION: Slightly irritating in rabbits.

DERMAL TOXICITY: The dermal LD₅₀ in rats was >5,000 mg/kg.

ORAL TOXICITY: The oral LD₅₀ in rats was >5,000 mg/kg.

INHALATION TOXICITY: The 4-hour inhalation LC₅₀ (dust) of Technical material in rats was >5057 mg/m³ air. The 4-hour inhalation in LC₅₀ (aerosol) of Technical in rats was >332 mg/m³ air.

SKIN SENSITIZATION: Negative

SUBCHRONIC: In subchronic studies with Technical material, the NOEL for rat, mice and dog where 5,000 ppm, 1000 ppm and 1000 ppm respectively. Reduced body weight development, increased feed and water intake were seen in rats and mice. The liver is the main toxicological target organ. In dogs, effects in the red blood system was additionally seen.

CHRONIC/CARCINOGENICITY: Unspecific signs of toxicity seen in rats treated with Technical material were reduced body weight development, increased feed and water intake and slight effects on liver and thyroid. In mice the main effects were a decrease of kidney weights and an increase in chronic renal disease and basophilic tubuli. In dogs the red blood system was the main toxicological target. Technical material was not carcinogenic to rat or mouse.

TERATOLOGY/DEVELOPMENTAL TOXICITY: In studies with Technical material, the NOEL for both maternal and developmental effects in rats was 1,000 mg/kg bw/day. No maternal toxicity, no clinical signs, no necropsy findings, no compound related effects in body weight or food consumption, mating, fertility, gestation indices, embryo toxicity, fetotoxicity or teratogenicity were observed.

REPRODUCTION: No reproduction toxicity was observed in a 2-generation study with rats exposed to Technical material.

MUTAGENICITY: Technical material tested was negative in the following genotoxicity assays: Samonella/microsome test (Ames test), mouse micronucleus test, Reverse mutation, chromosome aberration in vitro, V79-HGPRT in vitro, rat primary hepatocyte UDS in vitro. Technical material does not present a genetic hazard to intact animal systems.

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12. ECOLOGICAL INFORMATION

AVIAN TOXICITY: The acute toxicity of Technical material is very low.

Bobwhite quail: LD₅₀ = >2,000 mg a.i./kg bw
Bobwhite quail: Dietary LC₅₀ = >5,000 mg a.i./kg diet
Mallard duck: Dietary LC₅₀ = >5,000 mg a.i./kg diet

AQUATIC ORGANISM TOXICITY: This product is moderately toxic to fish, has a low toxicity to *Daphnia magna* and the sensitivity to green algae ranges from low to moderate.

Rainbow trout: 96-hour LC₅₀ = 1.3 mg a.i./l
Daphnia magna: 48-hour EC₅₀ = 105 mg a.i./l
Green algae (growth rate): 72-hour EC₅₀ = 5.6 mg a.i./l

OTHER NON-TARGET ORGANISMS: In acute toxicity studies, Technical material was found to be nontoxic to honeybees.

Oral LD₅₀ = >97.7 ug a.i./bee
Contact LD₅₀ = >188 ug a.i./bee

13. DISPOSAL CONSIDERATIONS

END USER SHOULD CONTACT SePRO PRIOR TO DISPOSAL OF ANY UNUSED PRODUCT.

DISPOSAL METHODS: Check governmental regulations and local authorities for approved disposal of this material. Dispose in accordance with applicable laws and regulations.

14. TRANSPORT INFORMATION

D.O.T. SHIPPING NAME: Pesticide, Non-regulated

TECHNICAL SHIPPING NAME: N/A

D.O.T. HAZARD CLASS: N/A

U.N./N.A NUMBER: N/A

15. REGULATORY INFORMATION

REGULATIONS UNDER FIFRA: All pesticides are governed under FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act). Therefore, the regulations presented below are pertinent only when handled outside of the normal use and applications of pesticides. This includes waste streams resulting from manufacturing/formulation

facilities, spills or misuse of products, and storage of large quantities of products containing hazardous or extremely hazardous substances.

U.S. FEDERAL REGULATIONS:

OSHA Status: N/A

TSCA Status: N/A

CERCLA Reportable Quantity: N/A

RCRA*:

SARA Title III Status:

SARA 311 Categories

1. Immediate (Acute) Health Effects: YES
2. Delayed (Chronic) Health Effects: NDA
3. Fire Hazard: NO
4. Sudden Release of Pressure Hazard: NO
5. Reactivity Hazard: NO

STATE REGULATIONS: Each state may promulgate standards more stringent than the federal government. This section cannot encompass an inclusive list of all state regulations. Therefore, the user should consult state or local authorities.

*RCRA waste codes must be determined on a case by case basis (i.e., spill, processing waste, etc.). The waste code presented is based on available product characteristics only.

16. OTHER INFORMATION

The information on this MSDS is based on data available to us as of the revision data given herein, and believed to be correct. Contact SePRO at (317) 580-8282 to determine if additional data and information have become available since the revision date.

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