

# Material Safety Data Sheet



Transportation and Medical Emergency Phone: 1-800-535-5053 (INFOTRAC)

General Phone: 317-580-8282

EPA Reg. No.: 66330-35-67690

Revision Date: 12/24/2008

## Decree® 50WDG Fungicide

SePRO Corporation Carmel, IN 46032-4565

### 1. PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT:** Decree 50WDG Fungicide

**COMPANY IDENTIFICATION:**

SePRO Corporation

11550 North Meridian Street, Suite 600

Carmel, IN 46032-4565

[www.sepro.com](http://www.sepro.com)

**Information Phone:** 317-580-8282 (Monday - Friday, 8:00 am to 5:00 pm EST)

### 2. HAZARDS IDENTIFICATION

**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: 1-800-535-5053**

**ACUTE HEALTH HAZARDS:**

**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 HEALTH HAZARDS (Including Cancer):**

Decree 50WDG is not a carcinogen.

**TERATOLOGY (Birth Defects) INFORMATION:**

Decree 50WDG is not a developmental toxicant.

**REPRODUCTION INFORMATION:** Decree 50WDG is not a reproductive toxicant.

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

**Active Ingredient(s)/Hazardous Inert Ingredient(s):**

Component	CAS#	% Weight
Fenhexamid	126833-17-8	50%
N-(2,3-dichloro-4-hydroxyphenyl)-1-methyl-cyclohexanecarboxamide		

Only the identities of the active ingredient(s) and any hazardous inert ingredient(s) are listed. Specific information on all of this product's ingredients can be obtained by the treating medical professional or spill emergency responder for the management of exposures, spills, or safety assessments.

### 4. FIRST AID MEASURES

**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:** Call a physician or Poison Control Center. Drink 1 to 2 glasses of water and induce vomiting by touching back of the throat with finger, or, if available, by administering syrup of ipecac. If person is unconscious, do not give anything by mouth and do not induce vomiting.

**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.

### 5. FIRE FIGHTING MEASURES

**FLAMMABLE LIMITS IN AIR (% by volume):**

**Upper:** No data available

**Lower:** No data available

**FLASH POINT:** Not applicable

**Method Used:** Not applicable

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

**LEL/UEL:** No data available

**NFPA HAZARD CLASSIFICATION:**

**Health:** No data available

**Flammability:** No data available

**Reactivity NDA:** No data available

**Other:** No data available

**EXTINGUISHING MEDIA:** CO<sub>2</sub>, dry chemical, foam, water fog, sand.

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**SPECIAL FIRE FIGHTING PROCEDURES:** 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 (SCBA). Contain and isolate runoff and debris for proper disposal. Decontaminate personal protective equipment and firefighting equipment before reuse.

**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

In the case of a spill, call INFOTRAC at 1-800-535-5053.

Avoid runoff into storm sewers and ditches, which lead to waterways. Clean up spill immediately. Place product and any contaminated cleanup materials in a chemical waste container. Wash area with soap and water. Pick up wash liquid with additional absorbent and place in a disposable container. Stop or reduce contamination of any water. Isolate contaminated water. 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 explosible, and exhibits a lower explosible limit of 90 g/m<sup>3</sup>.

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### EXPOSURE LIMITS<sup>†</sup>:

TWA<sup>††</sup>

OSHA PEL<sup>‡</sup>: None

ACGIH TLV<sup>§</sup>: None

NIOSH REL<sup>¶</sup>: None

<sup>†</sup>Source: Guide to Occupational Exposure Values 2000, published by ACGIH.

<sup>††</sup>TWA: Time-weighted average exposure concentration for a conventional 8-hour (TLV, PEL) or up to a 10-hour (REL) workday and a 40-hour workweek.

<sup>‡</sup>OSHA PEL: Occupational Safety and Health Administration Permissible Exposure Limits.

<sup>§</sup>ACGIH TLV: American Conference of Governmental Industrial Hygienists, Inc., Threshold Limit Values.

<sup>¶</sup>NIOSH REL: National Institute for Occupational Safety and Health Recommended Exposure Limits.

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

**RESPIRATORY/VENTILATION 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. Skin contact should be minimized by wearing protective clothing including gloves.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

**APPEARANCE:** Beige

**ODOR:** Weak, not characteristic

**PHYSICAL STATE:** Granule

**pH:** 8.3 in 1% solution of water

**BOILING POINT:** Not applicable

**MELTING POINT:** 153°C

**FREEZING POINT:** Not applicable

**VAPOR PRESSURE:** 4 x 10<sup>-7</sup> Pa at 20°C

**VAPOR DENSITY:** No data available

**SPECIFIC GRAVITY:** Not applicable

**EVAPORATION RATE:** Not applicable

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

**PERCENT SOLIDS BY WEIGHT:** No data available

**PERCENT VOLATILE:** Not applicable

**VOLATILE ORGANIC COMPOUNDS:** Not applicable

**MOLECULAR WEIGHT:** No data available

**VISCOSITY:** Not applicable

### 10. STABILITY AND REACTIVITY

**CHEMICAL STABILITY:** Stable for 52 weeks at ambient temperature.

**HAZARDOUS POLYMERIZATION:** No data available

**FLASH POINT:** Not applicable

**FLAMMABLE POINT:** No data available

**AUTO IGNITION:** 295°C

**INCOMPATIBILITY WITH OTHER MATERIALS:** No data available

**HAZARDOUS DECOMPOSITION PRODUCTS:** No data available

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### 11. TOXICOLOGICAL INFORMATION

#### ACUTE (Product Specific Information):

**Eye Irritation:** Slightly irritating in rabbits.

**Skin Irritation:** Slightly irritating in rabbits.

**Dermal Toxicity:** The dermal LD<sub>50</sub> in rats is >2,000 mg/kg.

**Oral Toxicity:** The oral LD<sub>50</sub> in rats is >2,000 mg/kg.

**Inhalation Toxicity:** The 4-hour inhalation LC<sub>50</sub> (dust) of Fenhexamid Technical in rats is >5,057 mg/m<sup>3</sup> air. The 4-hour inhalation in LC<sub>50</sub> (aerosol) of Fenhexamid Technical in rats is >332 mg/m<sup>3</sup> air.

**Skin Sensitization:** Negative

**SUBCHRONIC:** In subchronic studies with Fenhexamid Technical, the NOEL for rat, mice and dog where 5,000 ppm, 1,000 ppm and 1,000 ppm respectively. Reduced body weight development, increased feed and water intake was seen in rats and mice. The liver is the main toxicological target organ. In dogs, effects in the red blood system were also observed.

**CHRONIC/CARCINOGENICITY:** Fenhexamid Technical is not carcinogenic to the rat or mouse. Unspecific signs of toxicity seen in rats treated with Fenhexamid Technical were reduced body weight development, increased feed and water intake and slight effects on liver and thyroid. In mice the main effects were with the kidney. In dogs the red blood system was the main toxicological target.

**TERATOLOGY/DEVELOPMENTAL TOXICITY:** Fenhexamid Technical is not a teratogen or developmental toxicant. 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 Fenhexamid Technical.

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

### 12. ECOLOGICAL INFORMATION

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

- Bobwhite quail LD<sub>50</sub>: >2,000 mg a.i./kg bw
- Bobwhite quail dietary LC<sub>50</sub>: >5,000 mg a.i./kg diet
- Mallard duck dietary LC<sub>50</sub>: >5,000 mg a.i./kg diet

**AQUATIC ORGANISM TOXICITY:** Decree 50WDG 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 LC<sub>50</sub>: 2.66 mg/L
- *Daphnia magna* 48-hour EC<sub>50</sub>: 200 mg/L
- Green algae (growth rate) 72-hour EC<sub>50</sub>: 11.1 mg/L

**OTHER NON-TARGET ORGANISMS:** In acute toxicity studies, Fenhexamid Technical was found to be nontoxic to honey bees.

- Oral LD<sub>50</sub>: >100 ug a.i./bee
- Contact LD<sub>50</sub>: >200 ug a.i./bee

### 13. DISPOSAL CONSIDERATIONS

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:** Not applicable

**PACKING GROUP:** Not applicable

**D.O.T HAZARD CLASS:** Not applicable

**U.N./N.A. NUMBER:** Not applicable

**PRODUCT RQ (lbs):** Not applicable

**D.O.T. LABEL:** Not applicable

**D.O.T. PLACARD:** Not applicable

**MARINE POLLUTANT:** Not applicable

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### 15. REGULATORY INFORMATION

#### U.S. FEDERAL REGULATIONS

##### FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act):

All pesticides are governed under FIFRA. 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.

##### CERCLA (Comprehensive Response Compensation, and Liability Act):

Not applicable

##### EPCRA (Emergency Planning and Community Right-to-Know Act):

Not applicable

##### OSHA (Occupational Safety and Health Administration):

Not applicable

##### RCRA (Resource Conservation and Recovery Act):

Not applicable

##### SARA Title III (SUPERFUND Amendments and Reauthorization Act):

Section 302 (EHS) TPQ: None

Section 304 (EHS) RQ: None

Section 311/312 Categories:

- Immediate (Acute) Health Effects: Yes
- Delayed (Chronic) Health Effects: No
- Fire Hazard: No
- Sudden Release of Pressure Hazard: No
- Reactivity Hazard: No data available

**TSCA (Toxic Substance Control Act):** This product is exempt from TSCA Regulation under FIFRA Section 3(2)(B)(ii) when used as a pesticide.

#### 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.

### 16. OTHER INFORMATION

#### MSDS STATUS:

Revision Date: 12/24/2008 (ALSNA030406)

Sections: All

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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