

SECTION 1: Identification

1.1. Identification

Product form : Mixture
 Trade name : DECREE® 50WDG FUNGICIDE
 Other means of identification : Health Canada Pest Management Registration Number 26132

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture : Fungicide.
 Restrictions on use : No additional information available

1.3. Details of the supplier of the safety data sheet

Arysta LifeScience Canada, Inc.
 400 Michener Road, Unit 2
 Guelph, Ontario N1K 1E4 - Canada
 T 1-866-761-9397

1.4. Emergency telephone number

Emergency number : FOR 24-HOUR MEDICAL EMERGENCY ASSISTANCE CALL PROPHARMA: 1-866-303-6952
 or +1-651-603-3432
 FOR 24-HOUR CHEMICAL EMERGENCY (Spill, leaks, fire, exposure or accident) call
 CHEMTREC: 1-800-424-9300 or +1-703-527-3887

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

GHS-US classification

STOT RE 2 H373
 Aquatic Chronic 2 H411

Full text of hazard classes and H-statements : see section 16

2.2. Label elements

GHS-US labelling

Hazard pictograms (GHS-US) :



GHS08

GHS09

Signal word (GHS-US) : Warning
 Hazard statements (GHS-US) : H373 - May cause damage to organs through prolonged or repeated exposure.
 H411 - Toxic to aquatic life with long lasting effects.
 Precautionary statements (GHS-US) : P260 - Do not breathe dust, fume.
 P273 - Avoid release to the environment.
 P314 - Get medical advice/attention if you feel unwell.
 P391 - Collect spillage.
 P501 - Dispose of contents/container to Collection point

2.3. Other hazards

No additional information available

2.4. Unknown acute toxicity (GHS US)

Not applicable.

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

DECREE® 50WDG FUNGICIDE

Safety Data Sheet

Canada HPR

Name	Product identifier	% (w/w)	GHS-US classification
fenhexamid (Main constituent)	(CAS-No.) 126833-17-8	50	Aquatic Chronic 2, H411
Dispersing agent	(CAS-No.) trade secret	24.2 - 25.8	STOT RE 2, H373

Full text of H-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general	: Never give anything by mouth to an unconscious person. IF exposed or concerned: Get medical advice/attention.
First-aid measures after inhalation	: If inhaled and if breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.
First-aid measures after skin contact	: Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. Wash contaminated clothing before reuse. If skin irritation or rash occurs: Get medical advice/attention.
First-aid measures after eye contact	: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
First-aid measures after ingestion	: Immediately call a POISON CENTER/doctor. Do NOT induce vomiting unless directed to do so by medical personnel. Sip water.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/effects	: Causes damage to organs (upper respiratory tract, skin, and eyes.).
Symptoms/effects after inhalation	: In high concentrations : Inhalation may cause: irritation, coughing, shortness of breath.
Symptoms/effects after skin contact	: No significant signs or symptoms indicative of any health hazard are expected to occur as a result of skin contact. May cause moderate irritation.
Symptoms/effects after eye contact	: No significant signs or symptoms indicative of any adverse health hazard are expected to occur as a result of eye exposure. May cause slight irritation.
Symptoms/effects after ingestion	: No significant signs or symptoms indicative of any adverse health hazard are expected to occur as a result of ingestion.

4.3. Indication of any immediate medical attention and special treatment needed

All treatments should be based on observed signs and symptoms of distress in the patient.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	: Carbon dioxide. Dry powder. Foam. Sand. Water fog.
Unsuitable extinguishing media	: Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

Fire hazard	: No specific fire or explosion hazard.
Explosion hazard	: Dust may form explosive mixture in air.
Reactivity	: No dangerous reactions known.

5.3. Advice for firefighters

Firefighting instructions	: Exercise caution when fighting any chemical fire. Do not allow run-off from fire fighting to enter drains or water courses. Minimize the amount of water used for fire fighting.
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection. Wear a self contained breathing apparatus. Wear fire/flame resistant/retardant clothing.
Other information	: In the event of a fire and/or explosion do not breathe fumes. Cool tanks with water spray. Use water spray to cool unopened containers.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures	: Avoid contact with skin and eyes. Avoid creating or spreading dust. Collect contaminated fire fighting water separately. It must not enter the sewage system. Shut off all ignition sources; no fires, smoking, or flames in the hazard area.
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6.1.1. For non-emergency personnel

Protective equipment	: Dust impervious gloves. Wear suitable protective clothing and gloves. Chemical goggles or safety glasses. Do not breathe dust.
Emergency procedures	: Evacuate unnecessary personnel.

DECREE® 50WDG FUNGICIDE

Safety Data Sheet

Canada HPR

6.1.2. For emergency responders

- Protective equipment : Wear suitable protective clothing and gloves. Dust impervious gloves. Chemical goggles or safety glasses.
- Emergency procedures : Ventilate area.

6.2. Environmental precautions

Do not allow large quantities, as are, to spread into the environment. Do not discharge into drains or rivers. Do not contaminate water when disposing of rinse out or equipment wash water. Do not discharge into drains or the environment. Prevent dispersion.

6.3. Methods and material for containment and cleaning up

- For containment : Absorb and/or contain spill with inert material, then place in suitable container. Avoid generating dust. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.
- Methods for cleaning up : Collect spillage. Minimize generation of dust. On land, sweep or shovel into suitable containers. Sweep spilled substance into containers; if appropriate, moisten first to prevent dusting. Following recovery, flush area with water. Clean surface thoroughly to remove residual contamination.

6.4. Reference to other sections

Section 13: disposal information. Section 7: safe handling. Section 8: personal protective equipment.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

- Precautions for safe handling : Avoid breathing dust. Do not get in eyes, on skin, or on clothing. Keep away from sources of ignition - No smoking. Provide good ventilation in process area to prevent formation of dust.
- Hygiene measures : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Do not eat, drink or smoke when using this product.

7.2. Conditions for safe storage, including any incompatibilities

- Storage conditions : Keep only in the original container in a cool well ventilated place. Keep container tightly closed. Store in a dry place. Do not store near food, foodstuffs, drugs, or potable water supplies.
- Incompatible materials : None known.
- Heat and ignition sources : Keep away from heat, sparks and flame.
- Special rules on packaging : Keep only in original container.

7.3. Specific end use(s)

Fungicide.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

DECREE® 50WDG FUNGICIDE		
ACGIH	Not applicable	
OSHA	Not applicable	
fenhexamid (126833-17-8)		
ACGIH	Not applicable	
OSHA	Not applicable	
Dispersing agent (trade secret)		
ACGIH	ACGIH TWA (mg/m ³)	10 mg/m ³ (Inhalable particulates not otherwise specified); 3 mg/m ³ (Respirable particulates not otherwise specified)
OSHA	Not applicable	

8.2. Exposure controls

- Appropriate engineering controls : Avoid dispersal of dust in the air (ie, clearing dust surfaces with compressed air). Provide local exhaust or general room ventilation to minimize exposure to dust.
- Personal protective equipment : Avoid all unnecessary exposure.
- Hand protection : Wear suitable gloves resistant to chemical penetration.
- Eye protection : In case of dust production: protective goggles.
- Skin and body protection : Wear suitable protective clothing.

DECREE® 50WDG FUNGICIDE

Safety Data Sheet

Canada HPR

Respiratory protection	: No special respiratory protection equipment is recommended under normal conditions of use with adequate ventilation. Where excessive dust may result, use approved respiratory protection equipment. Use air-purifying respirator equipped with particulate filtering cartridges.
Other information	: Do not eat, drink or smoke when using this product.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Solid
Appearance	: Granular powder.
Colour	: Beige
Odour	: Faint
Odour threshold	: No data available
pH	: 8.3 in 1% solution of water
Melting point	: 153 °C
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Flammability (solid, gas)	: No data available
Explosive limits	: 90 g/m ³ lower limit
Explosive properties	: Dust may form explosive mixture in air.
Oxidising properties	: No oxidizing properties.
Vapour pressure	: 0.000004 Pa @ 20°C
Relative density	: No data available
Relative vapour density at 20 °C	: No data available
Solubility	: Dispersable.
Log Pow	: No data available
Log Kow	: No data available
Auto-ignition temperature	: 295 °C
Decomposition temperature	: No data available
Viscosity	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No dangerous reactions known.

10.2. Chemical stability

Stable at ambient temperature and under normal conditions of use. 52 weeks.

10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

10.4. Conditions to avoid

Avoid creating or spreading dust. Keep away from sources of ignition. Heat.

10.5. Incompatible materials

None known.

10.6. Hazardous decomposition products

No dangerous decomposition products known.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Likely routes of exposure : Inhalation; Skin and eye contact

DECREE® 50WDG FUNGICIDE

Safety Data Sheet

Canada HPR

Acute toxicity : Not classified

DECREE® 50WDG FUNGICIDE	
LD50 oral rat	> 2000 mg/kg
LD50 dermal rat	> 2000 mg/kg

fenhexamid (126833-17-8)	
LD50 oral rat	> 5000 mg/kg
LD50 dermal rat	> 5000 mg/kg
LC50 inhalation rat (mg/l)	> 5057 mg/m ³ 4h

Dispersing agent (trade secret)	
LD50 oral rat	> 12000 mg/kg

Skin corrosion/irritation : Not classified

Serious eye damage/irritation : Not classified

Respiratory or skin sensitisation : Not classified

Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified

Reproductive toxicity : Not classified

Specific target organ toxicity (single exposure) : Not classified

Specific target organ toxicity (repeated exposure) : May cause damage to organs through prolonged or repeated exposure.

Aspiration hazard : Not classified

Symptoms/effects after inhalation : In high concentrations : Inhalation may cause: irritation, coughing, shortness of breath.

Symptoms/effects after skin contact : No significant signs or symptoms indicative of any health hazard are expected to occur as a result of skin contact. May cause moderate irritation.

Symptoms/effects after eye contact : No significant signs or symptoms indicative of any adverse health hazard are expected to occur as a result of eye exposure. May cause slight irritation.

Symptoms/effects after ingestion : No significant signs or symptoms indicative of any adverse health hazard are expected to occur as a result of ingestion.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - water : Toxic to aquatic life with long lasting effects.

fenhexamid (126833-17-8)	
LC50 fish 1	1.34 mg/l 96 h Oncorhynchus mykiss
EC50 Daphnia 1	> 18.8 mg/l 48h

Dispersing agent (trade secret)	
LC50 fish 1	361 ppm 96h Pimephales promelas

12.2. Persistence and degradability

DECREE® 50WDG FUNGICIDE	
Persistence and degradability	May cause long-term adverse effects in the environment.

Dispersing agent (trade secret)	
Persistence and degradability	Biodegrades slowly.
Biochemical oxygen demand (BOD)	0.021 g O ₂ /g substance (5 day/day); 0.043 g O ₂ /g (30 day/days)

12.3. Bioaccumulative potential

fenhexamid (126833-17-8)	
Log Pow	2.23 - 3.62 20 °C; pH 9-4 respectively

12.4. Mobility in soil

12.5. Other adverse effects

DECREE® 50WDG FUNGICIDE

Safety Data Sheet

Canada HPR

SECTION 13: Disposal considerations

13.1. Waste treatment methods

- Sewage disposal recommendations : Do not dispose of waste into sewer.
Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.

SECTION 14: Transport information

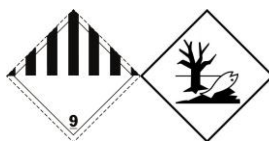
Transportation of Dangerous Goods

- Transport document description : UN3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (fenhexamid), 9, III
UN-No. (TDG) : UN3077
Proper Shipping Name (Transportation of Dangerous Goods) : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
TDG Primary Hazard Classes : 9 - Class 9 - Miscellaneous Products, Substances or Organisms
Packing group : III - Minor Danger
TDG Special Provisions : Small Means of Containment (< = 450 kg) Not Regulated; Large means of containment (> 450 kg) Regulated as stated

Transport by sea

IMDG

- Transport hazard class(es) (IMDG) : 9



- Marine pollutant : Yes
UN-No. (IMDG) : 3077
Transport document description (IMDG) : UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (fenhexamid), 9, III, MARINE POLLUTANT
Class (IMDG) : 9 - Miscellaneous dangerous substances and articles
Packing group (IMDG) : III - substances presenting low danger
EmS-No. (Fire) : F-A
EmS-No. (Spillage) : S-F

Air transport

IATA

- Transport hazard class(es) (IATA) : 9



- Marine pollutant : Yes
UN-No. (IATA) : 3077
Transport document description (IATA) : UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (fenhexamid), 9, III
Class (IATA) : 9 - Miscellaneous Dangerous Goods
Packing group (IATA) : III - Minor Danger

SECTION 15: Regulatory information

CANADA

fenhexamid (126833-17-8)

Not listed on the Canadian DSL (Domestic Substances List) inventory.

Dispersing agent (trade secret)

Listed on the Canadian DSL (Domestic Substances List) inventory.

DECREE® 50WDG FUNGICIDE

Safety Data Sheet

Canada HPR

SECTION 16: Other information

Data sources : ACGIH 2000. European Chemicals Agency (ECHA) Registered Substances list. Accessed at <http://echa.europa.eu/>. Krister Forsberg and S.Z. Mansdorf, "Quick Selection Guide to Chemical Protective Clothing", Fifth Edition. National Fire Protection Association; Fire Protection Guide to Hazardous Materials; 10th edition. OSHA 29CFR 1910.1200 Hazard Communication Standard. TSCA Chemical Substance Inventory. Accessed at <http://www.epa.gov/oppt/existingchemicals/pubs/tscainventory/howto.html>.

Other information : None.

Full text of H-statements:

Aquatic Chronic 2	Hazardous to the aquatic environment — Chronic Hazard, Category 2
STOT RE 2	Specific target organ toxicity — Repeated exposure, Category 2
H373	May cause damage to organs through prolonged or repeated exposure.
H411	Toxic to aquatic life with long lasting effects.

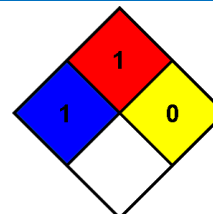
Abbreviations and acronyms:

	ACGIH (American Conference of Government Industrial Hygienists)
	ATE: Acute Toxicity Estimate
	CAS (Chemical Abstracts Service) number
	ATE: Acute Toxicity Estimate
	CLP: Classification, Labelling, Packaging.
	EC50: Environmental Concentration associated with a response by 50% of the test population.
	GHS: Globally Harmonized System (of Classification and Labeling of Chemicals)
	LD50: Lethal Dose for 50% of the test population
	OSHA: Occupational Safety & Health Administration
	TSCA: Toxic Substances Control Act
	STEL: Short Term Exposure Limits
	TWA: Time Weighted Average

NFPA health hazard : 1 - Materials that, under emergency conditions, can cause significant irritation.

NFPA fire hazard : 1 - Materials that must be preheated before ignition can occur.

NFPA reactivity : 0 - Normally stable, even under fire exposure conditions, and not reactive with water.



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This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product