SAFETY DATA SHEET

Decree® 50 WDG

Section 1. Identification

Product form : Mixture
Product name : Decree® 50 WDG
EPA Registration Number : 70506-446-67690
Use of substance/mixture : Fungicide

Supplier's details : SePRO Corporation
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Carmel, IN 46032 U.S.A.
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Emergency telephone : **INFOTRAC - 24-hour service 1-800-535-5053**

The following recommendations for exposure controls and personal protection are intended for the manufacture, formulation and packaging of this product. For applications and/or use, consult the product label. The label directions supersede the text of this Safety Data Sheet for application and/or use.

Section 2. Hazards identification

Classification of the substance or mixture

GHS-US classification

STOT RE 2	H373
Aquatic Chronic 2	H411

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
P273 – Avoid release to the environment
P314 – Get medical advice and attention if you feel unwell
P391 – Collect spillage
P501 – Dispose of contents/container in accordance with local and national regulations

Other hazards No additional information available

Unknown acute toxicity (GHS-US) No data available

Section 3. Composition/information on ingredients

Substances: Not applicable

Mixture: Only components with health hazards above the applicable thresholds are shown . Specific composition withheld as trade secret. Full text of H-phrases: see section 16

Name	Product Identifier	%	GHS-US Classification
Fenhexamid (main constituent)	(CAS No) 126833-17-8	48.5 – 52.2	Aquatic Chronic 2, H411
Lignosulfonic acid, sodium salt	(CAS No) 8061-51-6	20 – 30	STOT RE 2 H373

Section 4. First aid measures

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 or doctor/physician. Do NOT induce vomiting unless directed to do so by medical personnel. Sip water.

Most important symptoms and effects, both acute and delayed

Symptoms/injuries: Causes damage to organs (upper respiratory tract, skin, and eyes).

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

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

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. Fire-fighting measures

Extinguishing media

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

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.

Advice for firefighters

Firefighting instructions:	Exercise caution when fighting any chemical fire. Do not allow run-off from firefighting to enter drains or water courses. Minimize the amount of water used for firefighting.
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

Personal precautions, protective equipment and emergency procedures

General measures:	Avoid contact with skin and eyes. Avoid creating or spreading dust. Collect contaminated firefighting water separately. It must not enter the sewage system. Shut off all ignition sources; no flares, smoking, or flames in the hazard area.

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.

For emergency responders

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

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.

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.
Reference to other sections	Section 13: disposal information. Section 7: safe handling. Section 8: personal protective equipment.

Section 7. Handling and storage

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.

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-ignition:	Keep away from heat, sparks and flame.
Special rules on packaging:	Keep only in original container.
Specific end use(s)	Fungicide

Section 8. Exposure controls/personal protection

Control parameters

Lignosulfonic acid, sodium salt (8061-51-6)		
USA-ACGIH	ACGIH TWA (mg/m^3)	10 mg/m^3 (Inhalable particles not otherwise specified) 3 mg/m^3 (Respirable particulates not otherwise specified)

Fenhexamid (126833-17-8)
None established

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 dust impervious gloves.

Eye protection:	In case of dust production: protective goggles.
Skin and body protection:	Wear suitable protective clothing.
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

Information on basic physical and chemical properties

Physical state:	Solid
Appearance:	Granular powder
Color:	Beige
Odor:	Faint
Odor threshold:	No data available
pH:	8.1 in 1% solution of water
Relative evaporation rate (butylacetate =1):	No data available
Melting point:	153 °C
Freezing point:	No data available
Boiling point:	No data available
Flash point:	No data available
Self-ignition temperature:	295 °C
Decomposition temperature:	No data available
Flammability (solid, gas):	No data available
Vapor pressure:	0.000004 Pa @ 20°C
Relative vapor density:	No data available
Relative density:	No data available
Solubility:	Dispersable
Log Pow:	No data available
Log Kow:	No data available
Viscosity, kinematic:	No data available

Viscosity, dynamic: No data available

Explosive properties: Dust may form explosive mixture in air

Oxidising properties: No oxidizing properties

Explosive limits: 90 g/m^3 lower limit

Section 10. Stability and reactivity

Reactivity: No dangerous reactions known.

Chemical stability: Stable at ambient temperature and under normal conditions of use (52 weeks)

Possibility of hazardous reactions: Hazardous polymerization will not occur.

Conditions to avoid: Avoid creating or spreading dust. Keep away from sources of ignition. Heat.

Incompatible materials: None known.

Hazardous decomposition products: No dangerous decomposition products known.

Section 11. Toxicological information

Acute Toxicity: Not classified

Decree 50WDG Fungicide

LD50 oral rat	> 2000 mg/kg
LD50 dermal rat	> 2000 mg/kg

Fenhexamid Technical (126833-17-8)

LD50 oral rat	> 5000 mg/kg in both rats and mice
LD50 dermal rat	> 5000 mg/kg
LC50 inhalation rat (mg/l)	> 5057 mg/m^3 4h (dust)

Lignosulfonic acid, sodium salt (8061-51-6)

LD50 oral rat	> 12000 mg/kg

Skin corrosion/irritation: Not classified
Slightly irritating in rabbits, not sufficient for classifications

Serious eye damage/irritation: Not classified
Slightly irritating in rabbits, not sufficient for classifications

Respiratory or skin sensitization: Not classified

Germ cell mutagenicity: Not classified
Not mutagenic or genotoxic in a battery of in vitro or in vivo tests (fenhexamid technical)

Carcinogenicity: Not classified
Not carcinogenic in laboratory animals (fenhexamid technical)

Reproductive toxicity: Not classified

	Did not cause reproductive toxicity in 2-generation study in rats (fenhexamid technical)
Specific target organ toxicity (single exposure)	Not classified
Specific target organ toxicity (repeated exposure)	May cause damage to organs (upper respiratory tract, skin, and eyes) through prolonged or repeated exposure.
Aspiration hazard	Not classified
Symptoms/injuries after inhalation	In high concentrations: Inhalation may cause: irritation, coughing, shortness of breath.
Symptoms/injuries 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/injuries 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/injuries 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

Toxicity

Ecology – water	Toxic to aquatic life with long lasting effects.

Fenhexamid Technical

LC50 fishes 1	1.34 mg/l 96 h Oncorhynchus mykiss
EC50 Daphnia 1	> 18.8 mg/l 48h

Lignosulfonic acid, sodium salt (8061-51-6)

LC50 fishes 1	361 ppm 96h Pimephales promelas

Persistence and degradability

Decree 50WDG Fungicide

Persistence & degradability: May cause long-term adverse effects in the environment.

Fenhexamid Technical (126833-17-8)

Not rapidly biodegradable

Lignosulfonic acid, sodium salt (8061-51-6)

Persistence & 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)

Bioaccumulative potential

Fenhexamid Technical (126833-17-8)

Log Pow	2.23 3.62 20 °C; pH 9-4 respectively This product is not bioaccumulating
Bioconcentration factor	BCF:132 – 185

Mobility in soil

Fenhexamid Technical (126833-17-8)

Slightly mobile in soil

Other adverse effects No additional information available

Section 13. Disposal considerations

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

In accordance with DOT

Not considered a dangerous good for transport regulations

Additional information

Other Information: No supplementary information available

ADR

Transport document description: UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (fenhexamid), 9, III, (E)

Packing Group (ADR): III

Class (ADR): 9 – Miscellaneous dangerous substances and articles

Hazard identification number (Kemler No.): 90

Classification code (ADR): M7

Danger labels (ADR): 9 – Miscellaneous dangerous compounds

Orange Plates:

Tunnel restriction code: E

LQ: 5kg

Excepted quantities: E1

Transport by sea

UN-NO. (IMDG): 3077

Proper Shipping Name (IATA): ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (fenhexamid)

Class (IATA): 9 – Miscellaneous Dangerous Goods

Packing group (IATA): III – Minor Danger

Section 15. Regulatory information

U.S. Federal regulations

Fenhexamid (126833-17-8)	
Not listed on the United States TSCA (Toxic Substances Control Act) inventory	
EPA TSCA Regulatory Flag	Exempt from TSCA Regulation under FIFRA Section 3 (2)(B)(ii) when used as a pesticide.

Lignosulfonic acid, sodium salt (8061-51-6)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
EPA TSCA Regulatory Flag	XU – XU – indicates a substance exempt from reporting under the inventory Update Reporting Rule, i.e., Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFT 710(C)).

International Regulations

CANADA

Decree 50WDG Fungicide	
WHMIS Classification	Class D Division 2 Subdivision B – Toxic material causing other toxic effects

Fenhexamid (126833-17-8)
Not listed on the Canadian DSL (Domestic Substances List) inventory. Not listed on the Canadian Non-Domestic Substances List (NDSL).

Lignosulfonic acid, sodium salt (8061-51-6)
Listed on the Canadian DSL (Domestic Substances List) inventory.

EU – Regulations

Fenhexamid (126833-17-8)
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances) substances.

Lignosulfonic acid, sodium salt (8061-51-6)
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances) substances.

Classification according to Regulation (EC) No. 1272/2008 [CLP]

STOT RE 2 H373
Aquatic Chronic 2 H411
Full text of H-phrases: see section 16

Classification according to Directive 67/548/EEC or 1999/45/EC
N; R51/53

National regulations No additional information available

U.S. State regulations No additional information available

US EPA – FIFRA Regulations

This chemical is a pesticide product registered by the United States Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets (SDS), and for workplace labels of non-pesticide chemicals. The hazard information required on the pesticide label is reproduced below. The pesticide label also includes other important information, including directions for use.

Signal Word (FIFRA): Caution

Hazard statements (FIFRA):
Harmful if swallowed or absorbed through skin.
Causes moderate eye irritation.
Avoid contact with skin, eyes and clothing.
Wash thoroughly with soap and water after handling.

Environmental Hazards (FIFRA):
This pesticide is toxic to fish and aquatic invertebrates. Drift and runoff may be hazardous to aquatic organisms in neighboring areas. Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when cleaning equipment or disposing of equipment washwaters or rinsate.

Section 16. Other information

Indication of changes: Updated transport description.

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.

Abbreviations and acronyms: ACGIH (American Conference of Government Industrial Hygienists).
ATE: Acute Toxicity Estimate.
CAS (Chemical Abstracts Service) number.

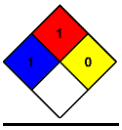
CLP: Classification, Labelling, Packaging.
EC50: Environmental Concentration associated with a response by 50% of the test population.
GHS: Globally Harmonized System (of Classification *and* Labeling of Chemicals).
LD50: Lethal Dose for 50% of the test population.
OSHA: Occupational Safety & Health Administration.
TSCA: Toxic Substances Control Act.

Other information: None

Full text of H-phrases: see section 16:

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

NFPA health hazard: 1 – Exposure could cause irritation but only minor residual injury even if no treatment is given.
NFPA fire hazard: 1 – Must be preheated before ignition can occur.
NFPA reactivity: 0 – Normally stable, even under fire exposure conditions, and not reactive with water.



History

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