

Safety data sheet

PRISTINE WG FUNGICIDE

Revision date : 2009/03/18
Version: 1.0

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(30276867/SDS_CPA_CA/EN)

1. Substance/preparation and company identification

Company

BASF Canada Inc.
100 Milverton Drive
Mississauga, ON L5R 4H1, CANADA

24 Hour Emergency Response Information

CANUTEC (reverse charges): (613) 996-6666
BASF HOTLINE: (800) 454-COPE (2673)

Substance number:	000000097988
Molecular formula:	C18 H12 Cl2 N2 O ; C19 H18 Cl N3 O4
Chemical family:	crop protection product, fungicide, water dispersible granules
Synonyms:	pyraclostrobin + boscalid

2. Hazardous ingredients

Not WHMIS controlled.

3. Hazard identification

Potential health effects

See Product Label for additional precautionary statements.

Irritation:

Not irritating to the skin. Not irritating to the eyes.

Repeated dose toxicity:

No known chronic effects.

4. First-aid measures

If inhaled:

Keep patient calm, remove to fresh air, seek medical attention.

If on skin:

After contact with skin, wash immediately with plenty of water and soap. If irritation develops, seek medical attention.

If in eyes:

Immediately wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist.

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If swallowed:

Rinse mouth immediately and then drink plenty of water, seek medical attention. Do not induce vomiting unless told to by a poison control center or doctor. Never induce vomiting or give anything by mouth if the victim is unconscious or having convulsions.

5. Fire-fighting measures

Flash point:		not applicable
Autoignition:		not applicable
Flammability:	not highly flammable	(Directive 84/449/EEC, A.10)
Self-ignition temperature:	328 °C	(Directive 92/69/EEC, A.16)

Suitable extinguishing media:

water spray, foam, dry extinguishing media, carbon dioxide

Hazards during fire-fighting:

carbon monoxide, Hydrogen chloride, carbon dioxide, nitrogen oxides, organochloric compounds, sulfur oxides
The substances/groups of substances mentioned can be released in case of fire.

Protective equipment for fire-fighting:

Wear self-contained breathing apparatus and chemical-protective clothing.

Further information:

In case of fire and/or explosion do not breathe fumes. Keep containers cool by spraying with water if exposed to fire. Collect contaminated extinguishing water separately, do not allow to reach sewage or effluent systems. Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

6. Accidental release measures

Personal precautions:

Use personal protective clothing. Avoid contact with the skin, eyes and clothing. Remove contaminated clothes, undergarments and shoes immediately.

Environmental precautions:

Do not discharge into the subsoil/soil. Do not discharge into drains/surface waters/groundwater.

Cleanup:

Collect waste in suitable containers, which can be labeled and sealed. Clean contaminated floors and objects thoroughly with water and detergents, observing environmental regulations. Dispose of absorbed material in accordance with regulations.

For small amounts: Contain with dust binding material and dispose of.
For large amounts: Sweep/shovel up.

7. Handling and storage

Handling

Protection against fire and explosion:

Avoid dust formation. Avoid deposition of dust. Dust can form an explosive mixture with air. Prevent electrostatic charge - sources of ignition should be kept well clear - fire extinguishers should be kept handy.

Storage

General advice:

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Keep away from heat. Protect against moisture. Protect from direct sunlight. Keep in a cool, well-ventilated place.

Storage incompatibility:

General: Segregate from foods and animal feeds. Segregate from strong acids. Segregate from strong bases. Segregate from strong oxidizing agents.

Storage stability:

Storage duration: 24 Months

Temperature tolerance

Protect from temperatures above: 40 °C

Changes in the properties of the product may occur if substance/product is stored above indicated temperature for extended periods of time.

8. Exposure controls and personal protection

Users of a pesticidal product should refer to the product label for personal protective equipment requirements.

Personal protective equipment

RECOMMENDATIONS FOR MANUFACTURING, COMMERCIAL BLENDING, AND PACKAGING WORKERS:

Respiratory protection:

Wear respiratory protection if ventilation is inadequate. Wear a NIOSH-certified (or equivalent) particulate respirator.

Hand protection:

Chemical resistant protective gloves (EN 374)

Eye protection:

Safety glasses with side-shields (frame goggles) (e.g. EN 166)

Body protection:

Body protection must be chosen depending on activity and possible exposure, e.g. apron, protecting boots, chemical-protection suit (according to EN 14605 in case of splashes or EN ISO 13982 in case of dust).

9. Physical and chemical properties

Form:	granules, extrudates	
Odour:	almost odourless	
Odour threshold:	No data available.	
Colour:	brown	
pH value:	7.0	(1 %(m), 20 °C) (as suspension)
melting range:	approx. 50 °C	
Boiling point:		not applicable, The substance / product decomposes therefore not determined.
Vapour pressure:		negligible
Density:	1.509 g/cm ³	(20 °C) (OECD Guideline 109)
Bulk density:	approx. 600 kg/m ³	
Partitioning coefficient n-octanol/water (log Pow):		not applicable
Viscosity, dynamic:		not applicable
Solubility in water:		dispersible

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10. Stability and reactivity

Minimum ignition energy:

> 100 - < 300 mJ

Conditions to avoid:

Temperature: > 122 degrees Celsius

Decomposition products:

Hazardous decomposition products: No hazardous decomposition products if stored and handled as prescribed/indicated.

Thermal decomposition:

150 °C, 2 K/min (DSC (OECD 113))

Corrosion to metals:

Corrosive effects to metal are not anticipated.

Oxidizing properties:

not fire-propagating (Directive 92/69/EEC, A.17)

11. Toxicological information

Acute toxicity

Oral:

LD50/rat: approx. 1,490 mg/kg

Inhalation:

LC50/rat/male/female: > 5.4 mg/l / 4 h

Dermal:

LD50/rat: > 2,000 mg/kg

Skin irritation:

rabbit: non-irritant (OECD Guideline 404)

Eye irritation :

rabbit: non-irritant (OECD Guideline 405)

Sensitization:

modified Buehler test/guinea pig: Non-sensitizing.

Chronic toxicity

Genetic toxicity:

Information on: pyraclostrobin

No mutagenic effect was found in various tests with microorganisms and mammalian cell culture.

Information on: Boscalid

No mutagenic effect was found in various tests with microorganisms and mammals.

Carcinogenicity:

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Information on: pyraclostrobin

In long-term studies in rats and mice in which the substance was given by feed, a carcinogenic effect was not observed.

Information on: Boscalid

In long-term studies in rats the substance induced thyroid tumors.

Reproductive toxicity:

Information on: pyraclostrobin

The results of animal studies gave no indication of a fertility impairing effect.

Information on: Boscalid

The results of animal studies gave no indication of a fertility impairing effect.

Developmental toxicity/teratogenicity:

Information on: pyraclostrobin

Information on: Boscalid

No indications of a developmental toxic / teratogenic effect were seen in animal studies.

Other information:

The product has not been tested. The statements on toxicology have been derived from products of a similar structure and composition.

Misuse can be harmful to health.

12. Ecological information

Environmental fate and transport

Biodegradation:

Evaluation: Not readily biodegradable (by OECD criteria).

Information on: boscalid

No significant accumulation in organisms is expected as a result of the distribution coefficient of n-octanol/water (log Pow).

Information on: pyraclostrobin

Because of the n-octanol/water distribution coefficient (log Pow) accumulation in organisms is possible.

Environmental toxicity

Acute and prolonged toxicity to fish:

OECD Guideline 203 Rainbow trout/LC50 (96 h): 0.042 mg/l

Acute toxicity to aquatic invertebrates:

OECD Guideline 202, part 1 Daphnia magna/EC50 (48 h): 0.08 mg/l

Toxicity to aquatic plants:

OECD Guideline 201 green algae/EC50 (72 h): 4.99 mg/l

13. Disposal considerations

Waste disposal of substance:

See product label for disposal and recycling instructions.

