

Safety data sheet

INSIGNIA® EG FUNGICIDE

Revision date : 2009/03/18
Version: 1.0

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(30436330/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:	000000084915
Molecular formula:	C ₁₉ H ₁₈ Cl N ₃ O ₄
Molecular weight:	387.83 g/mol
Synonyms:	pyraclostrobin

2. Hazardous ingredients

Not WHMIS controlled.

3. Hazard identification

Emergency overview

CAUTION: Harmful if swallowed.
Avoid contact with the skin, eyes and clothing.

Potential health effects

See Product Label for additional precautionary statements.

Acute toxicity:

Irritation:

May cause slight but temporary irritation to the eyes. May cause slight irritation to the skin.

Sensitization:

Skin sensitizing effects were not observed in animal studies.

4. First-aid measures

If inhaled:

Keep patient calm, remove to fresh air. Assist in breathing if necessary. Consult a physician.

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If on skin:

Wash affected areas thoroughly with soap and water. Remove contaminated clothing. If irritation develops, seek medical attention.

If in eyes:

Hold eyelids open to facilitate rinsing. Flush with copious amounts of water for at least 15 minutes. If symptoms persist, seek medical advice.

If swallowed:

Rinse mouth and then drink plenty of water. Do not induce vomiting. Immediate medical attention required.

5. Fire-fighting measures

Flash point:

Non-flammable.

Autoignition:

not applicable

Flammability:

not highly
flammable

(Directive 92/69/EEC, A.10)

Self-ignition temperature:

296 °C

(Directive 92/69/EEC, A.16)

Suitable extinguishing media:

foam, dry extinguishing media, carbon dioxide, water spray

Hazards during fire-fighting:

carbon monoxide, carbon dioxide, ammonia, nitrogen dioxide, nitrogen oxide, Hydrogen chloride, halogenated hydrocarbons, Ammonium sulphate, Hydrocarbons, sulfur oxides, acid halides

The substances/groups of substances mentioned can be released if the product is involved in a fire. If product is heated above decomposition temperature, toxic vapours will be released. If product is heated above decomposition temperature, flammable vapours will be released.

Protective equipment for fire-fighting:

Firefighters should be equipped with self-contained breathing apparatus and turn-out gear.

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:

Take appropriate protective measures. Clear area. Shut off source of leak only under safe conditions. Extinguish sources of ignition nearby and downwind. Ensure adequate ventilation. Wear suitable personal protective clothing and equipment.

Environmental precautions:

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

Cleanup:

Dike spillage. Pick up with suitable absorbent material. Place into suitable containers for reuse or disposal in a licensed facility. After decontamination, spill area can be washed with water. Collect wash water for approved disposal.

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7. Handling and storage

Handling

General advice:

Ensure adequate ventilation. Provide good ventilation of working area (local exhaust ventilation if necessary). Keep away from sources of ignition - No smoking. Keep container tightly sealed. Protect contents from the effects of light. Protect against heat. Protect from air. Handle and open container with care. Avoid aerosol formation. Avoid dust formation. Provide means for controlling leaks and spills. Do not return residues to the storage containers. The substance/ product may be handled only by appropriately trained personnel. Avoid all direct contact with the substance/product. Avoid contact with the skin, eyes and clothing. Avoid inhalation of dusts/mists/vapours. Wear suitable personal protective clothing and equipment.

Protection against fire and explosion:

Dust can form an explosive mixture with air.

Storage

General advice:

Keep away from heat. Protect against moisture. Protect from direct sunlight.

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) TC23C Chemical/Mechanical type filter system to remove a combination of particles, gas and vapours.

Hand protection:

Chemical resistant protective gloves

Eye protection:

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

General safety and hygiene measures:

Avoid inhalation of dust. Wash soiled clothing immediately.

9. Physical and chemical properties

Form:	low dusting fine granules	
Odour:	slight odour	
Odour threshold:	No data available.	
Colour:	grey-brown	
pH value:	approx. 6.1 6.5 - 7.5	(10 g/l, 20 °C)
Melting point:		not applicable
Boiling point:		not applicable, The product is a non-volatile solid.
Vapour pressure:		negligible
Density:	1.676 g/cm ³	(20 °C) (OECD Guideline 109)
Relative density:	1.676	(20 °C) (OECD Guideline 109)
Bulk density:	approx. 615 - 702 kg/m ³	

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Partitioning coefficient n-octanol/water (log Pow):	not applicable
Viscosity, dynamic:	not applicable
Viscosity, kinematic:	not applicable
Solubility in water:	dispersible

10. Stability and reactivity

Dust explosion class:

Dust explosion class 1 (Kst-value >0 up to 200 bar m s-1) (St 1)

Substances to avoid:

strong oxidizing agents

Hazardous reactions:

No hazardous reactions if stored and handled as prescribed/indicated.

Decomposition products:

No hazardous decomposition products if stored and handled as prescribed/indicated., Prolonged thermal loading can result in products of degradation being given off.

Corrosion to metals:

Corrosive effects to metal are not anticipated.

Oxidizing properties:

Based on its structural properties the product is not classified as oxidizing. (Directive 92/69/EEC, A.17)

11. Toxicological information

Acute toxicity

Oral:

LD50/rat/male/female: > 2,000 mg/kg (OECD Guideline 401)

LD50/rat: > 2,000 mg/kg

Inhalation:

LC50/rat: 4.7 mg/l / 4 h

LC50/rat: 18.8 mg/l / 1 h

Dermal:

LD50/rat: > 2,000 mg/kg

Skin irritation:

rabbit: non-irritant (OECD Guideline 404)

rabbit: Slightly irritating. (Primary skin irritation test)

Eye irritation :

rabbit: non-irritant (OECD Guideline 405)

Sensitization:

Buehler test/guinea pig: Skin sensitizing effects were not observed in animal studies. (OECD Guideline 406)

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12. Ecological information

Environmental fate and transport

Biodegradation:

Evaluation: According to OECD criteria the product is not readily biodegradable but inherently biodegradable.

Environmental toxicity

Acute and prolonged toxicity to fish:

OECD Guideline 203 static
carp/LC50 (96 h): 0.25 mg/l

Acute toxicity to aquatic invertebrates:

OECD Guideline 202, part 1 static
Daphnia magna/EC50 (48 h): 38.2 µg/l

Toxicity to aquatic plants:

OECD Guideline 201 green algae/EC50 (72 h): 17.39 mg/l

13. Disposal considerations

Waste disposal of substance:

See product label for disposal and recycling instructions.

14. Transport information

Reference Bill of Lading

15. Regulatory information

Federal Regulations

Registration status:

DSL, CA released / exempt

WHMIS does not apply to this product.

THIS PRODUCT HAS BEEN CLASSIFIED IN ACCORDANCE WITH THE HAZARD CRITERIA OF THE CPR AND THE MSDS CONTAINS ALL THE INFORMATION REQUIRED BY THE CPR.

16. Other information

Refer to product label for EPA registration number.

Local contact information

BASF Canada Product Safety
prod_reg@basf.com

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