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(30542462/SDS\_CPA\_CA/EN)

## 1. Product 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)

PCP # 29767 Synonyms:

metconazole

### 2. Hazards Identification

#### **Emergency overview**

WARNING:

Eye irritant.

KEEP OUT OF REACH OF CHILDREN.

Harmful if swallowed.

Causes eye irritation.

Do not get in eyes, on skin, or on clothing.

Wash thoroughly after handling.

State of matter: liquid Colour: off-white Odour: characteristic

#### Potential health effects

Acute toxicity:

Virtually nontoxic after a single ingestion. Virtually nontoxic after a single skin contact. Virtually nontoxic by inhalation.

Irritation / corrosion:

Causes substantial but temporary eye injury. May cause slight irritation to the skin.

Sensitization:

Skin sensitizing effects were not observed in animal studies.

Chronic toxicity:

Carcinogenicity: The product has not been tested. The statement has been derived from the properties of the individual components.

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Repeated dose toxicity: The product has not been tested. The statement has been derived from the properties of the individual components.

#### Signs and symptoms of overexposure:

The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11., Further important symptoms and effects are so far not known.

#### Potential environmental effects

#### Aquatic toxicity:

Acutely toxic for fish. Acutely toxic for aquatic invertebrates. Acutely toxic for aquatic plants.

The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Acutely toxic for aquatic organisms. May cause long-term adverse effects in the aquatic environment.

#### Terrestrial toxicity:

With high probability not acutely harmful to terrestrial organisms.

#### Degradation / environmental fate:

The product has not been tested. The statement has been derived from the properties of the individual components.

#### Bioaccumulation / bioconcentration:

The product has not been tested. The statement has been derived from the properties of the individual components.

## 3. Composition / Information on Ingredients

Not WHMIS controlled.

#### 4. First-Aid Measures

#### General advice:

First aid providers should wear personal protective equipment to prevent exposure. Remove contaminated clothing. Move person to fresh air. If person is not breathing, call 911 or ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or physician for treatment advice. Have the product container or label with you when calling a poison control center or doctor or going for treatment.

Remove contaminated clothing.

#### If inhaled:

Remove the affected individual into fresh air and keep the person calm.

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

#### If on skin:

Rinse skin immediately with plenty of water for 15 - 20 minutes.

Wash thoroughly with soap and water.

#### If in eyes:

Hold eyes open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after first 5 minutes, then continue rinsing.

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

#### If swallowed:

Never induce vomiting or give anything by mouth if the victim is unconscious or having convulsions. Do not induce vomiting. Have person sip a glass of water if able to swallow.

Immediately rinse mouth and then drink 200-300 ml of water, seek medical attention.

Note to physician

Antidote: Treatment: No known specific antidote.

Treat symptomatically.

Treatment:

Treat according to symptoms (decontamination, vital functions), no known

specific antidote.

## 5. Fire-Fighting Measures

Flash point:

> 113 °C

(ASTM D93)

Autoignition:

340 °C

Lower explosion limit:

Upper explosion limit:

) °C

As a result of our experience with this product and our knowledge of its composition we do not expect any hazard as long as the product is used appropriately and in

accordance with the intended use.

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we do not expect any hazard as long as the product is used appropriately and in accordance with the intended use.

Flammability:

not applicable

#### Suitable extinguishing media:

foam, dry powder, carbon dioxide, water spray

#### Hazards during fire-fighting:

carbon monoxide, carbon dioxide, nitrogen oxide, nitrogen dioxide, Hydrogen chloride, halogenated hydrocarbons, Hydrocarbons,

The substances/groups of substances mentioned can be released in case of fire. If product is heated above decomposition temperature, toxic vapours will be released.

#### Protective equipment for fire-fighting:

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

#### Further information:

Evacuate area of all unnecessary personnel. Contain contaminated water/firefighting water. Do not allow to enter drains or waterways.

#### 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. Contain contaminated water/firefighting water.

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#### Cleanup:

Dike spillage. Pick up with suitable absorbent material. Place into suitable containers for reuse or disposal in a licensed facility. Spilled substance/product should be recovered and applied according to label rates whenever possible. If application of spilled substance/product is not possible, then spills should be contained, solidified, and placed in suitable containers for disposal. After decontamination, spill area can be washed with water. Collect wash water for approved disposal.

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

For small amounts: Pick up with suitable absorbent material (e.g. sand, sawdust, general-purpose binder, kieselguhr).

For large amounts: Dike spillage. Pump off product.

## 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. Do not open until ready to use. Once container is opened, content should be used as soon as possible. Avoid aerosol formation. Avoid dust formation. Provide means for controlling leaks and spills. Do not return residues to the storage containers. Follow label warnings even after container is emptied. 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.

No special measures necessary if stored and handled correctly. Ensure thorough ventilation of stores and work areas. When using do not eat, drink or smoke. Hands and/or face should be washed before breaks and at the end of the shift.

#### Protection against fire and explosion:

The relevant fire protection measures should be noted. Fire extinguishers should be kept handy. Avoid all sources of ignition: heat, sparks, open flame. Sources of ignition should be kept well clear. Avoid extreme heat. Keep away from oxidizable substances. Electrical equipment should conform to national electric code. Ground all transfer equipment properly to prevent electrostatic discharge. Electrostatic discharge may cause ignition.

#### Storage

#### General advice:

Keep only in the original container in a cool, dry, well-ventilated place away from ignition sources, heat or flame. Protect containers from physical damage. Protect against contamination.

#### Storage incompatibility:

General advice: Segregate from incompatible substances. Segregate from foods and animal feeds. Segregate from textiles and similar materials.

#### Storage stability:

Storage duration: 24 Months

#### Temperature tolerance

Protect from temperatures below: 2 °C

The product can crystallize below the limit temperature.

Protect from temperatures above: 30 °C

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

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### 8. Exposure Controls and Personal Protection

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

#### Components with occupational exposure limits

naphthalene

**OSHA PEL** 

PEL 10 ppm 50 mg/m3; STEL value 15 ppm 75 mg/m3

**ACGIH TLV** 

TWA value 10 ppm 50 mg/m3; TWA value 10 ppm; STEL value 15 ppm; Skin

The substance can be absorbed through the skin.

naphthalene

OSHA PEL

PEL 10 ppm 50 mg/m3; STEL value 15 ppm 75 mg/m3

TWA value 10 ppm 50 mg/m3;

**ACGIH TLV** 

TWA value 10 ppm; STEL value 15 ppm; Skin

Designation;

The substance can be absorbed through the skin.

#### Advice on system design:

Whenever possible, engineering controls should be used to minimize the need for personal protective equipment.

#### Personal protective equipment

#### 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.

Suitable respiratory protection for higher concentrations or long-term effect: Combination filter for gases/vapours of organic, inorganic, acid inorganic and alkaline compounds (e.g. EN 14387 Type ABEK).

#### Hand protection:

Chemical resistant protective gloves, Protective glove selection must be based on the user's assessment of the workplace hazards.

#### Eye protection:

Safety glasses with side-shields. Tightly fitting safety goggles (chemical goggles). Wear face shield or tightly fitting safety goggles (chemical goggles) if splashing hazard exists.

#### Body protection:

Body protection must be chosen depending on activity and possible exposure, e.g. head protection, apron, protective boots, chemical-protection suit.

#### General safety and hygiene measures:

Wear long sleeved work shirt and long work pants in addition to other stated personal protective equipment. Work place should be equipped with a shower and an eye wash. Handle in accordance with good industrial hygiene and safety practice. Wearing of closed work clothing is recommended. The statements on personal protective equipment in the instructions for use apply when handling crop-protection agents in final-consumer packing. Personal protective equipment should be decontaminated prior to reuse. Gloves must be inspected regularly and prior to each use. Replace if necessary (e.g. pinhole leaks). Take off immediately all contaminated clothing. Store work clothing separately. Hands and/or face should be washed before breaks and at the end of the shift. No eating, drinking, smoking or tobacco use at the place of work. Keep away from food. drink and animal feeding stuffs.

## 9. Physical and Chemical Properties

Form:

Odour:

liquid

Odour threshold:

characteristic No data available.

Colour:

off-white

pH value:

approx. 5.0 - 7.0

(1 %(m), 20 °C)

Melting point:

approx. -6.5 °C

Information applies to the solvent.

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Boiling point: approx. 244.9 °C (1,013 hPa) Information applies to the

vapour pressure: approx. 0.008 hPa solvent. (25 °C) Information applies to the solvent.

Density: approx. 1.05 g/cm3 ( 20 °C)
Vapour density: not applicable
Partitioning coefficient n- not applicable

Partitioning coefficient noctanol/water (log Pow):

Viscosity, dynamic: 30 mPa.s (25 °C) Information based on the main

Viscosity, dynamic: 30 mPa.s (25 °C) Information based on the main components.

Solubility in water: (20 °C) emulsifiable

Other Information: If necessary, information on other physical and chemical parameters is

indicated in this section.

## 10. Stability and Reactivity

#### Conditions to avoid:

Avoid all sources of ignition: heat, sparks, open flame. Avoid prolonged storage. Avoid electro-static discharge. Avoid contamination. Avoid prolonged exposure to extreme heat. Avoid extreme temperatures.

#### Substances to avoid:

strong oxidizing agents, strong bases, strong acids

#### Hazardous reactions:

The product is chemically stable.

Hazardous polymerization will not occur. No hazardous reactions if stored and handled as prescribed/indicated.

#### Decomposition products:

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

#### Thermal decomposition:

Possible thermal decomposition products:

carbon monoxide, carbon dioxide, nitrogen oxide, nitrogen dioxide, Hydrogen chloride, halogenated hydrocarbons, Hydrocarbons

Stable at ambient temperature. If product is heated above decomposition temperature toxic vapours may be released.

#### Oxidizing properties:

not fire-propagating

#### 11. Toxicological information

#### Acute toxicity

#### Oral:

Type of value: LD50 Species: rat (male) Value: 3,536 mg/kg

Type of value: LD50 Species: rat (female) Value: 2,102 mg/kg

#### Dermal:

Type of value: LD50 Species: rat (male/female) Value: > 4,000 mg/kg

#### Irritation / corrosion

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Skin:

Species: rabbit Result: non-irritant

Eye:

Species: rabbit Result: Irritant.

#### Sensitization:

Buehler test

Species: guinea pig

Result: Skin sensitizing effects were not observed in animal studies.

Method: OECD Guideline 406

#### Repeated dose toxicity

Information on: Metconazole

Assessment of repeated dose toxicity:

Adaptive effects were observed after repeated exposure in animal studies.

Information on: diethylene glycol Assessment of repeated dose toxicity:

The substance may cause damage to the kidney after repeated ingestion.

The substance may cause damage to the liver after repeated ingestion.

Information on: solvent naphtha

Assessment of repeated dose toxicity:

The substance may cause damage to the liver after repeated ingestion of high doses, as shown in animal

studies.

Information on: naphthalene

Assessment of repeated dose toxicity:

Repeated oral uptake of the substance did not cause substance-related effects. The substance may cause damage to the olfactory epithelium after repeated inhalation. Repeated dermal uptake of the substance did not

cause substance-related effects.

#### Genetic toxicity

Information on: Metconazole

Results from a number of mutagenicity studies with microorganisms, mammalian cell culture and mammals are available. Taking into account all of the information, there is no indication that the substance is mutagenic.

## Carcinogenicity

Information on: Metconazole

In long-term studies in rodents exposed to high doses, a tumorigenic effect was found; however, these results

are thought to be due to a rodent-specific liver effect that is not relevant to humans.

#### Reproductive toxicity

Information on: Metconazole

Animal studies gave no indication of a developmental toxic effect at doses that were not toxic to the parental

animals.

#### Development:

Information on: Metconazole

Indications of possible developmental toxicity/teratogenicity were seen in animal studies.

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#### Aspiration Hazard:

No aspiration hazard expected.

#### Other Information:

Misuse can be harmful to health.

## 12. Ecological Information

## Fish

Acute:

Oncorhynchus mykiss/LC50 (96 h): 10 mg/l

#### Aquatic invertebrates

Acute:

Daphnia magna/EC50 (48 h): 9.28 mg/l

## Aquatic plants

Toxicity to aquatic plants: green algae/EC50 (72 h): > 6.91 mg/l

Not readily biodegradable (by OECD criteria).

#### Bioaccumulation

Information on: metconazole sunfish, bluegill Bioconcentration factor 51 - 80 Does not accumulate in organisms.

### Environmental mobility:

Information on: metconazole

Assessment transport between environmental compartments:

The substance will not evaporate into the atmosphere from the water surface.

Following exposure to soil, adsorption to solid soil particles is probable, therefore contamination of groundwater is not expected.

#### Other adverse effects:

Do not discharge product into the environment without control.

## 13. Disposal considerations

#### Waste disposal of substance:

See product label for disposal and recycling instructions.

#### Container disposal:

Contaminated packaging should be emptied as far as possible and disposed of in the same manner as the substance/product.

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### 14. Transport Information

Land transport

TDG

Not classified as a dangerous good under transport regulations

Sea transport

**IMDG** 

Hazard class:

Packing group: ID number:

Hazard label:

Marine pollutant:

Proper shipping name:

9 III

UN 3082

9, EHSM

YES

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

(contains METCONAZOLE)

Air transport

IATA/ICAO

Hazard class: Packing group:

ID number: Hazard label: 9 III

UN 3082

Proper shipping name:

9, EHSM

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

(contains METCONAZOLE)

### 15. Regulatory Information

### Federal Regulations

Registration status:

Chemical

DSL, CA

released; restriction on quantity / not listed

Crop Protection

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

Recommended use: fungicide

We support worldwide Responsible Care® initiatives. We value the health and safety of our employees, customers, suppliers and neighbors, and the protection of the environment. Our commitment to Responsible Care is integral to conducting our business and operating our facilities in a safe and environmentally responsible fashion, supporting our customers and suppliers in ensuring the safe and environmentally sound handling of our products, and minimizing the impact of our operations on society and the environment during production, storage, transport, use and disposal of our products.

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SDS Prepared by:

BASF NA Product Regulations

BASF HOTLINE (800) 454 - COPE (2673) SDS Prepared on: 2014/10/01

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