

# Safety Data Sheet

## PYLON® MITICIDE INSECTICIDE

Revision date : 2014/11/06  
Version: 1.1

Page: 1/8  
(30599995/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)

Molecular formula: C(15) H(11 ) Br Cl F(3) N(2) O  
PCP # 30666  
Synonyms: chlorfenapyr

### 2. Hazards Identification

#### Emergency overview

WARNING:  
POISON.  
Contains 1,2-benzisothiazolin-3-one as a preservative.  
KEEP OUT OF REACH OF CHILDREN.  
Harmful if swallowed.  
May be fatal if swallowed.  
May be fatal if inhaled.  
Harmful if absorbed through skin.  
Avoid contact with the skin, eyes and clothing.  
Wash thoroughly after handling.

State of matter: liquid  
Colour: white to light brown  
Odour: sweetish

#### Potential health effects

**Acute toxicity:**  
Slightly toxic after single ingestion. Slightly toxic after short-term inhalation. Slightly toxic after short-term skin contact.

**Irritation / corrosion:**  
May cause slight irritation to the skin. May cause slight but temporary irritation to the eyes.

**Sensitization:**  
Skin sensitizing effects were not observed in animal studies.

**Chronic toxicity:**

# Safety Data Sheet

## PYLON® MITICIDE INSECTICIDE

Revision date : 2014/11/06  
Version: 1.1

Page: 2/8  
(30599995/SDS\_CPA\_CA/EN)

**Carcinogenicity:** The product has not been tested. The statement has been derived from the properties of the individual components. The results of various animal studies gave no indication of a carcinogenic effect.

**Repeated dose toxicity:** The product has not been tested. The statement has been derived from the properties of the individual components. No substance-specific organotoxicity was observed after repeated administration to animals.

**Reproductive toxicity:** The product has not been tested. The statement has been derived from the properties of the individual components. The results of animal studies gave no indication of a fertility impairing effect.

**Teratogenicity:** The product has not been tested. The statement has been derived from the properties of the individual components. Animal studies gave no indication of a developmental toxic effect at doses that were not toxic to the parental animals.

**Medical conditions aggravated by overexposure:**

Individuals with pre-existing diseases of the respiratory system, skin or eyes may have increased susceptibility to excessive exposures.

**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:**

Very toxic (acute effect) to fish. Very toxic (acute effect) to aquatic invertebrates. Acutely toxic for aquatic plants.

**Terrestrial toxicity:**

Acutely very toxic to terrestrial organisms.

**Bioaccumulation / bioconcentration:**

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

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### 3. Composition / Information on Ingredients

Not WHMIS controlled.

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### 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.

**If inhaled:**

Remove the affected individual into fresh air and keep the person calm. Assist in breathing if necessary.

**If on skin:**

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

**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.

# Safety Data Sheet

## PYLON® MITICIDE INSECTICIDE

Revision date : 2014/11/06  
Version: 1.1

Page: 3/8  
(30599995/SDS\_CPA\_CA/EN)

### **If swallowed:**

Have person sip a glass of water if able to swallow. 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.

### **Note to physician**

Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote.

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## 5. Fire-Fighting Measures

Flash point: (ASTM D93) No flash point - Measurement made up to the boiling point.  
Autoignition: Based on the water content the product does not ignite.  
Flammability: not flammable

### **Suitable extinguishing media:**

water spray, carbon dioxide, foam

### **Hazards during fire-fighting:**

carbon monoxide, carbon dioxide, Hydrogen chloride, nitrogen oxides, organochloric compounds  
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.

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## 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. Cleaning operations should be carried out only while wearing breathing apparatus. Incinerate or take to a special waste disposal site in accordance with local authority 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.

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## 7. Handling and Storage

### **Handling**

#### **General advice:**

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

# Safety Data Sheet

## PYLON® MITICIDE INSECTICIDE

Revision date : 2014/11/06  
Version: 1.1

Page: 4/8  
(30599995/SDS\_CPA\_CA/EN)

### Protection against fire and explosion:

No special precautions necessary. The substance/product is non-combustible. Product is not explosive.

### 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. The authority permits and storage regulations must be observed.

Keep away from heat. Protect from direct sunlight.

#### Storage incompatibility:

General advice: Segregate from foods and animal feeds.

#### Temperature tolerance

Protect from temperatures below: 0 °C

The product can crystallize below the limit temperature.

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.

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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.**

### 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. For situations where the airborne concentrations may exceed the level for which an air purifying respirator is effective, or where the levels are unknown or Immediately Dangerous to Life or Health (IDLH), use NIOSH-certified full facepiece pressure demand self-contained breathing apparatus (SCBA) or a full facepiece pressure demand supplied-air respirator (SAR) with escape provisions.

#### 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 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. Take off immediately all contaminated clothing. Store work clothing separately. Keep away from food, drink and animal feeding stuffs. No eating, drinking, smoking or tobacco use at the place of work. Hands and/or face should be washed before breaks and at the end of the shift.

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## 9. Physical and Chemical Properties

Form:	suspension
Odour:	sweetish
Odour threshold:	No data available.

# Safety Data Sheet

## PYLON® MITICIDE INSECTICIDE

Revision date : 2014/11/06  
Version: 1.1

Page: 5/8  
(30599995/SDS\_CPA\_CA/EN)

Colour:	white to light brown	
pH value:	approx. 6.9	( 2 %(m), 20 °C)
Freezing point:	approx. 0 °C	( 1,013.3 hPa) Information applies to the solvent.
Boiling point:	approx. 100 °C	( 1,013 mbar) Information applies to the solvent.
Vapour pressure:	approx. 23.3 hPa	( 20 °C) Information applies to the solvent.
Density:	approx. 1.11 - 1.16 g/cm <sup>3</sup>	( 20 °C)
Vapour density:		not applicable
Partitioning coefficient n-octanol/water (log Pow):		not applicable
Viscosity, dynamic:	approx. > 1 mPa.s	( 20 °C)
Solubility in water:		dispersible
Other Information:	If necessary, information on other physical and chemical parameters is indicated in this section.	

## 10. Stability and Reactivity

### Conditions to avoid:

183 degrees Celsius

Disregard of the conditions mentioned may result in undesirable decomposition reactions.

### Substances to avoid:

strong acids, strong bases, strong oxidizing agents

### Hazardous reactions:

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, hydrogen bromide, hydrochloric acid, Hydrofluoric acid, hydrogen fluoride, halogenated hydrocarbons, nitrogen dioxide, 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/female)

Value: 560 - 567 mg/kg

#### Inhalation:

Type of value: LC50

Species: rat (male)

Value: 0.571 mg/l (OECD Guideline 403)

Exposure time: 4 h

An aerosol was tested.

# Safety Data Sheet

## PYLON® MITICIDE INSECTICIDE

Revision date : 2014/11/06  
Version: 1.1

Page: 6/8  
(30599995/SDS\_CPA\_CA/EN)

### Dermal:

Type of value: LD50  
Species: rabbit (male/female)  
Value: > 2,000 mg/kg

### Irritation / corrosion

#### Skin:

Species: rabbit  
Result: non-irritant

#### Eye:

Species: rabbit  
Result: non-irritant

#### Sensitization:

modified Buehler test  
Species: guinea pig  
Result: Skin sensitizing effects were not observed in animal studies.  
Method: OECD Guideline 406

#### Genetic toxicity

*Information on: Chlorfenapyr*  
*No mutagenic effect was found in various tests with microorganisms and mammalian cell culture. The substance was not mutagenic in a test with mammals.*  
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#### Development:

*Information on: Chlorfenapyr*  
*No indications of a developmental toxic / teratogenic effect were seen in animal studies.*  
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#### Other Information:

Misuse can be harmful to health.

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## 12. Ecological Information

### Fish

Acute:  
Flow through.  
Oncorhynchus mykiss/LC50 (96 h): 0.0239 mg/l

### Aquatic invertebrates

Acute:  
static  
Daphnia magna/EC50 (48 h): 0.012 mg/l

### Aquatic plants

Toxicity to aquatic plants:  
OECD Guideline 201 green algae/EC50 (72 h): 4.09 mg/l

### Degradability / Persistence Biological / Abiological Degradation

Evaluation: Not readily biodegradable (by OECD criteria).

### Other adverse effects:

# Safety Data Sheet

## PYLON® MITICIDE INSECTICIDE

Revision date : 2014/11/06  
Version: 1.1

Page: 7/8  
(30599995/SDS\_CPA\_CA/EN)

Do not discharge product into the environment without control.

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### 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: 9  
Packing group: III  
ID number: UN 3082  
Hazard label: 9, EHSM  
Marine pollutant: YES  
Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
(contains CHLORFENAPYR 24%)

**Air transport**

IATA/ICAO

Hazard class: 9  
Packing group: III  
ID number: UN 3082  
Hazard label: 9, EHSM  
Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
(contains CHLORFENAPYR 24%)

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### 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.**

# Safety Data Sheet

## PYLON® MITICIDE INSECTICIDE

Revision date : 2014/11/06  
Version: 1.1

Page: 8/8  
(30599995/SDS\_CPA\_CA/EN)

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### 16. Other Information

Recommended use: insecticide

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: 2014/11/06

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