



**Interprovincial Cooperative Limited**

**PIVOT 418**

**MATERIAL SAFETY DATA SHEET**

**1: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

Product Name: Pivot 418\*  
Product Use: Fungicide  
Product Number: 28219

Manufacturer /Supplier: INTERPROVINCIAL COOPERATIVE LTD.  
945 Marion St.  
Winnipeg, Manitoba  
R2J 0K7 [www.ipco.ca](http://www.ipco.ca)

Effective Date: January 01/2012

This product is regulated under authority of the Pest Control Products Act

**2: HAZARD IDENTIFICATION**

**Effects of Overexposure:**

Route of Exposure: Inhalation, eye contact, skin contact, ingestion.  
Inhalation: May cause headaches, nausea, and lack of coordination. May be harmful if inhaled...  
Eye Contact: Mildly irritating.  
Skin Contact: Warning Skin irritant. Potential skin sensitizer.  
Ingestion: May be harmful if swallowed. Aspiration can be a hazard if this material is swallowed. Will cause vomiting, nausea, diarrhea

**3: COMPOSITION AND INFORMATION ON INGREDIENTS**

COMPONENT	CAS NUMBER	% (W/W)
Propiconazole	1689-99-2	57.57 – 61.13
Hydrotreated light petroleum distillates	64742-47-8	33.80 – 35.90
Other ingredients		5.51 – 6.09
1, 2, 4-Trimethylbenzene	95-63-6	
Naphthalene	91-20-3	

Ingredients not listed are proprietary or non-hazardous

**4: FIRST AID MEASURES**

In case of poisoning, call a physician or poison control centre IMMEDIATELY.  
Inhalation: ..... Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control centre or doctor for further treatment advice.  
Ingestion: Call a poison control centre or doctor IMMEDIATELY for treatment advice. Do not induce vomiting unless told to do so by a poison control centre or doctor. Do not give any liquid to the person. Do not give anything by mouth to an unconscious person  
Skin: Flush skin with running water, and then continue flushing with running water for 5 - 10 minutes. Start flushing while removing contaminated clothing. If irritation persists, repeat flushing. Obtain medical attention IMMEDIATELY.  
Eyes: Hold eye open and rinse slowly and gently with water for 15–20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control centre or doctor for treatment advice.

**In case of emergency call CANUTEC at 613-885-6666**  
Interprovincial Cooperative Ltd.; Information Phone: 204-233-3461  
Effective Date:  
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Take container, label or product name and Pest Control Product Registration Number with you when seeking medical attention

**Emergency Medical Care:** There is no specific antidote if this product is ingested. Treat symptomatically. Contains petroleum distillate - vomiting may cause aspiration pneumonia. Induction of emesis is not recommended due to the large amount of petroleum solvent in this product, which could cause chemical pneumonitis if aspirated.

### 5: FIRE-FIGHTING MEASURES

**Unusual Fire & Explosion Hazards:** Toxic fumes under high temperature conditions. Contain water from fire fighting to prevent entry into water supplies...

**Extinguishing Media:** Use foam, carbon dioxide, dry powder, halon extinguishant or water fog or mist, (avoid use of water jet).

**Special Oxidizing Material Hazards:** Not Established

**Hazardous Combustion Products:** Toxic, flammable fumes are released by thermal decomposition in a fire. Thermal decomposition products may include hydrogen cyanide.

**Special Fire Fighting Procedures:** Use water spray to cool fires exposed containers or structures. Use water spray to disperse vapours; re-ignition is possible. Use self-contained breathing apparatus and protective clothing.

### 6: ACCIDENTAL RELEASE MEASURES

In case of spillage, absorb with inert material and dispose of in accordance with applicable regulations.

### 7: HANDLING AND STORAGE

Store in a cool, well-ventilated area. Keep away from heat, sparks and filling of containers. Keep away from children; prevent contact with eyes, skin, and clothing. Do not store near fertilizers, foodstuffs, seed, insecticides or fungicides.

Do not contaminate irrigation ditches or domestic water supplies. If this happens notify police and local authorities.

### 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

#### Exposure Limits:

Propiconazole

LD50-ORAL: 1517 mg/kg Rat

LD50-DERMAL: > 2000 mg/kg Rabbit

T.L.V. (ACGIH): Not Established

LC50: > 1.00 mg/L (4 hrs) Rat

Solvent Naphtha (Petroleum), Heavy Aromatic

LD50-ORAL: > 3,000 mg/kg Rat

LD50-DERMAL: > 3160 mg/kg Rabbit

T.L.V. (ACGIH): Total Hydrocarbons: 100 mg/m<sup>3</sup>

LC50: Not Established

Special Engineering Controls: Local exhaust ventilation required.

Eye Protection: CSA approved safety glasses with side shields or goggles.

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Respiratory Protection:	A NIOSH/MSHA approved air-purifying respirator equipped with organic vapor cartridges near or below TLV. Air supplied respirator above TLV or unknown concentrations.
Hand and Arm:	PVC or rubber gloves.
Feet:	Rubber boots.
Body:	Coveralls.
Other Personal Protection:	Recommendations listed above indicate the type of equipment which will provide protection against overexposure to this product. Conditions of use, adequacy of engineering or other control measures, and actual exposures will dictate the need for specific protective devices at your workplace.

## 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Liquid
Appearance & Odour:	Brown, Colour "Solvent" odour
Specific Gravity:	(@ 20 <sup>o</sup> c): 1.0750
Vapour density:	Solvent Naphtha (Petroleum), Heavy Aromatic: > 4.6 (Air =1)
Solubility in water:	Emulsifies
Solubility in liquids:	Not established
Freezing point:	< 0 <sup>o</sup> c
% volatile by volume:	Not applicable
Boiling point:	Solvent Naphtha (Petroleum), Heavy Aromatic: 184 - 205 <sup>o</sup> C
Odour threshold (ppm):	Not established
Coefficient of water/oil distribution:	Not applicable
Vapour pressure:	Solvent Naphtha (Petroleum), Heavy Aromatic: 0.40 Kpa @ 20 <sup>o</sup> C
Evaporation rate:	Solvent Naphtha (Petroleum), Heavy Aromatic: < 0.06 (n-butyl acetate = 1)
pH: (1% Sol'n):	6.0 – 8.0
Viscosity:	48 cps at 20 <sup>o</sup> C
Flash Point & Method:	( <sup>o</sup> C): 64 (Tag Closed Cup)
Flammable Limits (% in air):	Lower: 1.8 Solvent Naphtha (Petroleum), Heavy Aromatic Upper: 11.4 Solvent Naphtha (Petroleum), Heavy Aromatic
Autoignition Temperature	Solvent Naphtha (Petroleum), Heavy Aromatic: 433 <sup>o</sup> C

## 10: STABILITY AND REACTIVITY

Decomposition Temp:	Not Established
Stability:	Stable under normal conditions.
Materials to Avoid:	Nitric acid, sulfuric acid, strong oxidizing and reducing agents
Hazardous Decomposition Products:	Hydrogen cyanide
Hazardous Polymerization or Condensation:	Will not occur.
Conditions to Avoid:	High temperatures, sparks, open flames, and all other sources of ignition.

## 11: TOXICOLOGICAL INFORMATION

Skin Absorption:	Acute dermal LD50 (Rat)	> 5000 mg/kg.
Ingestion:	Acute oral LD50 (rat)	872 mg/kg.
Inhalation:	LC50	2.04 mg/L (4 hr, nose-only exposure) Rat
T.W.A. (ACGIH):	Total Hydrocarbons:	100 mg/m <sup>3</sup>
Chronic Health Hazards:	Prolonged or repeated exposure may lead to kidney or central nervous system symptoms.	
Mutagenicity Data:	None observed.	
Carcinogenicity Data:	Long-term exposure of mice to high dose levels of propiconazole produced an increase in liver tumors in male mice. Propiconazole is not considered to be carcinogenic.	

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Teratogenicity Data: None observed.  
Reproductive Effects: None observed.

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**12: ECOLOGICAL INFORMATION**

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**Data on 2Bromoxynil Octanoate:**

96-Hour LC50 (ppm): 0.85 (Rainbow Trout)

48-Hour EC50 (ppm): 4.80 (Daphnia)

Dietary LC50 (mg/kg): 2510 (Mallard Duck)

**Chemical Fate Information:** The active ingredient, propiconazole, has a low bioaccumulation potential, low mobility, and low to moderate persistence in soil and water. The Dissipation half-life in soil is 70 days. The main route of degradation is by microbial degradation and formation of bound residues.

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**13: DISPOSAL CONSIDERATIONS**

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Dispose of waste materials in an approved incinerator or waste treatment/disposal facility in accordance with applicable regulations. Do not dispose of wastes in local sewer or with normal waste

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**14: TRANSPORT INFORMATION**

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This product is Not Regulated under regulations of the Transport of Dangerous Goods Act.

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**15: REGULATORY INFORMATION**

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Pest Control Products Act  
Registration Number: 28219  
For Information Phone: 204-233-3461  
MSDS Status/  
Revised Sections:  
Replaces MSDS Dated: September 01, 2009

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**16: OTHER INFORMATION**

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WHMIS Ratings: B3, D2B  
Notice: The enclosed information is supplied as a customer service and is provided in good faith. Although it has been based on data drawn from sources deemed to be reliable, IPCO cannot guarantee its accuracy and assumes no responsibility for conditions resulting from its use.

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