



Interprovincial Cooperative Limited

VITAFLO SP FUNGICIDE

MATERIAL SAFETY DATA SHEET

1: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: Vitaflo SP Fungicide*
Product Use: Seed Protectant
Product Number: 30381

Manufacturer /Supplier: INTERPROVINCIAL COOPERATIVE LTD.
945 Marion St.
Winnipeg, Manitoba
R2J 0K7 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: The oral toxicity of the single dose is weak or moderate.
Eye Contact: May cause severe irritation with corneal injury, which may result in permanent impairment of vision, even blindness.
Skin Contact: May cause skin irritation.
Ingestion: Moderately toxic; May cause gastrointestinal irritation and ulceration

3: COMPOSITION AND INFORMATION ON INGREDIENTS

COMPONENT	CAS NUMBER	% (W/W)
Carboxin	5234-68-4	14.81 - 16.36
Thiram	137-26-8	12.59 - 13.91
Ethylene glycol	107-21-1	19.00 - 21.00
Other ingredients		48.73 - 53.60

Ingredients not listed are proprietary or non-hazardous

4: FIRST AID MEASURES

Inhalation: Remove to fresh air. Give artificial respiration if not breathing. Obtain medical attention.
Ingestion: If victim is fully conscious, give a cupful of water. Do not induce vomiting without medical advice. Get medical attention immediately. Do not give milk, oily products, fat or alcohol
Skin: Wash off with warm water and soap. Remove contaminated clothing and shoes. Wash clothing before reuse. If symptoms persist, call a physician.
Eyes: Immediately flush eyes with water and continue washing for at least 15 minutes. Obtain medical attention.
Emergency Medical Care: Treatment based on judgment of the physician in response to reaction of the patient. There is no specific antidote.

In case of emergency call CANUTEC at 613-885-6666

Interprovincial Cooperative Ltd.; Information Phone: 204-233-3461

Effective Date:

MSDS # 024

PCP# 30381

01-Jan-2012

Page 1 of 4

5: FIRE-FIGHTING MEASURES

Unusual Fire & Explosion Hazards:	Noxious fumes may be formed under fire conditions. Contain water from fire fighting to prevent entry into water supplies.
Extinguishing Media:	Large fires Alcohol-resistant foam. Small fires: Carbon dioxide (CO ₂) Dry chemical Water spray
Unsuitable extinguishing media :	Water spray jet
Special Oxidizing Material Hazards:	Not Established
Hazardous Combustion Products:	Carbon oxides may be formed under fire conditions.
Special Fire Fighting Procedures:	Use water spray to cool fire exposed containers or structures. 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

Do not eat, drink or smoke when handling. Avoid contact with skin, eyes and clothing. Avoid inhalation of vapour or mist. Use with adequate ventilation. Wash thoroughly after handling. Keep in a dry, cool place.

8: EXPOSURE CONTROLS AND PERSONAL PROTECTION**Exposure Limits:**

Thiram	
LD50-ORAL:	560 mg/kg Rat
LD50-DERMAL:	> 5000 mg/kg Rabbit
T.L.V. (ACGIH):	1 mg/m ³
LC50:	Not Established
Special Engineering Controls:	Local exhaust ventilation required.
Eye Protection:	CSA approved safety glasses with side shields or goggles.
Respiratory Protection:	In the absence of engineering controls sufficient to maintain airborne concentrations below recommended occupational exposure limit values, appropriate respiratory protection should be utilized. A respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use.
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:	Pink, Sweet Odour

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MSDS # 024

PCP#30381

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Page 2 of 4

Specific Gravity:	(@ 20°C): 1.1170
Vapour density:	Not established
Solubility in water:	Miscible
Solubility in liquids:	Not established
Freezing point:	- 4°C
% volatile by volume:	Not applicable
Boiling point:	Pas disponible
Odour threshold (ppm):	Not established
Coefficient of water/oil distribution:	Not applicable
Vapour pressure:	Not established
Evaporation rate:	Not established
pH:	7.8
Viscosity:	Not established
Flash Point & Method:	(°C): Not established
Flammable Limits (% in air):	Lower: Not established Upper: Not established
Autoignition Temperature	Not established

10: STABILITY AND REACTIVITY

Decomposition Temp:	Not Established
Stability:	Stable under normal conditions.
Materials to Avoid:	Acids, bases & oxidizing agents
Hazardous Decomposition Products:	Carbon oxides may be formed under fire conditions
Hazardous Polymerization or Condensation:	Will not occur.
Conditions to Avoid:	Elevated temperatures.

11: TOXICOLOGICAL INFORMATION

Skin Absorption:	Acute dermal LD50 (Rat)	>2000 mg/kg.
Ingestion:	Acute oral LD50 (rat)	4587 mg/kg.
Inhalation:	LC50	> 1.0 mg/l exposure time 4 h species: Rat
Chronic Health Hazards:	Excessive exposure may cause liver, kidney, gastrointestinal and muscle effects. Signs and symptoms of excessive exposure may be nausea, vomiting, abdominal cramps and diarrhea.	
Chronic Effects/ Carcinogenicity:	Animal testing did not show any carcinogenic effects.	
Reproductive toxicity:	No effects on or via lactation	
Developmental Toxicity:	No effects on or via lactation	
Genotoxicity:	In vitro tests showed mutagenic effects.	

12: ECOLOGICAL INFORMATION**Data on Thiram:**

96-Hour LC50 (mg/L): 3.60 (Rainbow Trout)
96-Hour LC50 (mg/L): 0.13 (Bluegill)
48-Hour EC50 (mg/L): 0.21 (Daphnia)
Oral LD50 (mg/kg): Not Determined (Bobwhite Quail)
Dietary LC50 (ppm): Not Determined (Mallard Duck)

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MSDS # 024

PCP#30381

01-Jan-2012

Page 3 of 4

13: DISPOSAL CONSIDERATIONS

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.

14: TRANSPORT INFORMATION

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

15: REGULATORY INFORMATION

Pest Control Products Act
Registration Number: 30381
For Information Phone: 204-233-3461
MSDS Status/
Revised Sections:
Replaces MSDS Dated: New

16: OTHER INFORMATION

WHMIS Ratings: 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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Page 4 of 4