

# Safety Data Sheet

## CHARTER RTU SEED TREATM.FUNG

Revision date : 2011/08/29  
Version: 1.4

Page: 1/8  
(30471392/SDS\_CPA\_CA/EN)

### 1. Product and Company Identification

Use: crop protection product, fungicide

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)

29400

### 2. Hazards Identification

#### Emergency overview

CAUTION:  
POISON.  
HARMFUL IF INHALED.  
Contains 1,2-benzisothiazolin-3-one as a preservative.  
KEEP OUT OF REACH OF CHILDREN.  
Avoid contact with skin and eyes.  
Avoid inhalation of vapour.  
Avoid inhalation of dusts.  
Wear chemical resistant protective gloves.  
Wear protective clothing.  
Wear a NIOSH-certified vapor respirator.  
Ensure adequate ventilation.  
Wash thoroughly after handling.

State of matter: liquid  
Colour: red  
Odour: odourless

#### Potential health effects

##### **Acute toxicity:**

Relatively nontoxic after single ingestion. Slightly toxic after short-term skin contact. Relatively nontoxic after short-term inhalation.

##### **Sensitization:**

Skin sensitizing effects were not observed in animal studies.

#### Potential environmental effects

# Safety Data Sheet

## CHARTER RTU SEED TREATM.FUNG

Revision date : 2011/08/29  
Version: 1.4

Page: 2/8  
(30471392/SDS\_CPA\_CA/EN)

**Aquatic toxicity:**

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

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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.

**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.

**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.

**Note to physician**

Antidote: No known specific antidote.  
Treatment: Treat symptomatically.

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### 5. Fire-Fighting Measures

Flash point: > 95 °C No flash point - Measurement made up to the indicated temperature, pilot light extinguishes.

**Suitable extinguishing media:**

foam, dry powder, carbon dioxide, water spray

**Hazards during fire-fighting:**

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.

# Safety Data Sheet

## CHARTER RTU SEED TREATM.FUNG

Revision date : 2011/08/29  
Version: 1.4

Page: 3/8  
(30471392/SDS\_CPA\_CA/EN)

---

### 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.

#### **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.

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### 7. Handling and Storage

#### **Handling**

##### **General advice:**

RECOMMENDATIONS ARE FOR MANUFACTURING, COMMERCIAL BLENDING, AND PACKAGING WORKERS. PESTICIDE APPLICATORS & WORKERS must refer to the Product Label and Directions for Use attached to the product.

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.

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

##### **Storage incompatibility:**

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

##### **Temperature tolerance**

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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# Safety Data Sheet

## CHARTER RTU SEED TREATM.FUNG

Revision date : 2011/08/29  
Version: 1.4

Page: 4/8  
(30471392/SDS\_CPA\_CA/EN)

### 8. Exposure Controls and Personal Protection

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

**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) organic vapour/particulate respirator. 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. 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.

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### 9. Physical and Chemical Properties

Form:	suspension	
Odour:	odourless	
Odour threshold:	No data available.	
Colour:	red	
pH value:	6.7	( 1 %(m), 25 °C)
Density:	1.05 g/cm <sup>3</sup>	( 20 °C)
Vapour density:		not determined
Partitioning coefficient n-octanol/water (log Pow):		not applicable
Solubility in water:		dispersible
Molar mass:	317.82 g/mol	

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### 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.

# Safety Data Sheet

## CHARTER RTU SEED TREATM.FUNG

Revision date : 2011/08/29  
Version: 1.4

Page: 5/8  
(30471392/SDS\_CPA\_CA/EN)

**Substances to avoid:**  
strong oxidizing agents

**Hazardous reactions:**  
The product is chemically stable.

**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.

**Thermal decomposition:**  
Possible thermal decomposition products:  
carbon monoxide, carbon dioxide, Sulphur dioxide, nitrogen dioxide, nitrogen oxide, Hydrocarbons  
Stable at ambient temperature. If product is heated above decomposition temperature toxic vapours may be released. To avoid thermal decomposition, do not overheat.

**Corrosion to metals:**  
Corrosive effects to metal are not anticipated.

**Oxidizing properties:**  
Not an oxidizer.

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## 11. Toxicological information

### Acute toxicity

**Oral:**  
Type of value: LD50  
Species: rat  
Value: > 5,000 mg/kg

**Inhalation:**  
Type of value: LC50  
Species: rat  
Value: > 3.25 mg/l

**Dermal:**  
Type of value: LD50  
Species: rabbit  
Value: > 2,000 mg/kg

### Irritation / corrosion

**Skin:**  
Species: rabbit  
Result: Slightly irritating.

**Eye:**  
Species: rabbit  
Result: Slightly irritating.

### Sensitization:

Skin sensitizing effects were not observed in animal studies.

### Genetic toxicity

*Information on: Triticonazole*  
*No mutagenic effect was found in various tests with microorganisms and mammalian cell culture.*

### Carcinogenicity

# Safety Data Sheet

## CHARTER RTU SEED TREATM.FUNG

Revision date : 2011/08/29  
Version: 1.4

Page: 6/8  
(30471392/SDS\_CPA\_CA/EN)

*Information on: Triticonazole*

*In long-term studies in rats and mice in which the substance was given by feed, a carcinogenic effect was not observed.*

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### Reproductive toxicity

*Information on: Triticonazole*

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

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### Development:

*Information on: Triticonazole*

*Causes developmental effects in animals at high, maternally toxic doses.*

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## 12. Ecological Information

### Fish

*Information on: Triticonazole*

*Acute:*

*EPA 72-1 Flow through.*

*Oncorhynchus mykiss/LC50 (96 h): > 3.6 mg/l*

*EPA 72-1 Flow through.*

*Lepomis macrochirus/LC50 (96 h): > 8.9 mg/l*

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### Aquatic invertebrates

*Information on: Triticonazole*

*Acute:*

*OECD Guideline 202, part 1 static*

*Daphnia magna/EC50 (48 h): 9 mg/l*

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### Aquatic plants

*Information on: Triticonazole*

*Toxicity to aquatic plants:*

*other swollen duckweed/EC50 (14 d): 1.1 mg/l*

*OECD Guideline 201 green algae/EC50 (96 h): > 1 mg/l*

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### Degradability / Persistence

#### Biological / Abiological Degradation

*Information on: Triticonazole*

*Test method:*

*Directive 84/449/EEC, C.5, activated sludge, adapted*

*Method of analysis:*

*CO2 formation relative to the theoretical value*

*Degree of elimination:*

*0 % (28 d)*

*Evaluation:*

*Not readily biodegradable (by OECD criteria).*

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# Safety Data Sheet

## CHARTER RTU SEED TREATM.FUNG

Revision date : 2011/08/29  
Version: 1.4

Page: 7/8  
(30471392/SDS\_CPA\_CA/EN)

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### 13. Disposal considerations

**Waste disposal of substance:**

Check for possible recycling. Do not discharge into drains/surface waters/groundwater. Residues should be disposed of in the same manner as the substance/product. Dispose of in accordance with local authority regulations.

**Container disposal:**

Rinse the container or liner as needed for disposal. Add rinsate to spray tank. Consult state or local disposal authorities for approved alternative procedures such as container recycling. Recommend crushing, puncturing or other means to prevent unauthorized use of used containers.

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### 14. Transport Information

**Land transport**

TDG

Not classified as a dangerous good under transport regulations

**Sea transport**

IMDG

Not classified as a dangerous good under transport regulations

**Air transport**

IATA/ICAO

Not classified as a dangerous good under transport regulations

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### 15. Regulatory Information

**Federal Regulations**

**Registration status:**

Chemical DSL, CA blocked / 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.**

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### 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

# Safety Data Sheet

## CHARTER RTU SEED TREATM.FUNG

Revision date : 2011/08/29

Page: 8/8

Version: 1.4

(30471392/SDS\_CPA\_CA/EN)

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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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**MSDS Prepared by:**

BASF NA Product Regulations

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BASF HOTLINE (800) 454 – COPE (2673)

MSDS Prepared on: 2011/08/29

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