



**Material Safety Data Sheet**  
**CHIPCO® TRITON™ FUNGICIDE**

MSDS Number: 102000021171  
 MSDS Version 1.1  
 Revision Date: 12/22/2011  
 Print Date: 12/22/2011

**SECTION 1. CHEMICAL PRODUCT AND COMPANY INFORMATION**

**Product name** CHIPCO® TRITON™ FUNGICIDE  
**MSDS Number** 102000021171  
**Product code (UVP)** 79507747  
**PCP Registration No.** 29109  
**Product Use** Fungicide

Bayer CropScience Inc  
 #200, 160 Quarry Park Blvd, SE  
 Calgary, Alberta T2C 3G3  
 Canada

For MEDICAL, TRANSPORTATION or other EMERGENCY call: 1-800-334-7577 (24 hours/day)  
 For Product Information call: 1-888-283-6847

**SECTION 2. HAZARDS IDENTIFICATION**

*NOTE: Please refer to Section 11 for detailed toxicological information.*

**Emergency Overview** Warning! Causes eye irritation. May cause skin irritation. Do not get in eyes. Avoid contact with skin and clothing. Avoid breathing spray mist. Wash thoroughly with soap and water after handling.

**Physical State** liquid suspension

**Odor** characteristic

**Appearance** green

**Exposure routes** Eye contact, Skin contact, Ingestion, Inhalation

**Chronic or Delayed Long-Term** This product or its components may have target organ effects.

**Potential Environmental Effect** Toxic to aquatic organisms. This product may cause adverse effects on non-target plants.



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#### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Hazardous Component Name</u>	<u>CAS-No.</u>	<u>Average % by Weight</u>
Triticonazole	131983-72-7	19.20
1,2-Propanediol	57-55-6	6.48
Isodecyl poly(ethyleneoxy)ethanol	78330-20-8	0.96

#### SECTION 4. FIRST AID MEASURES

<b>General</b>	When possible, have the product container or label with you when calling a poison control center or doctor or going for treatment.
<b>Eye</b>	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 physician or poison control center immediately.
<b>Skin</b>	Take off contaminated clothing and shoes immediately. Wash off immediately with plenty of water for at least 15 minutes. Call a physician or poison control center immediately.
<b>Ingestion</b>	Call a physician or poison control center immediately. Rinse out mouth and give water in small sips to drink. DO NOT induce vomiting unless directed to do so by a physician or poison control center. Never give anything by mouth to an unconscious person. Do not leave victim unattended.
<b>Inhalation</b>	Move to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a physician or poison control center immediately.
<b>Notes to physician Treatment</b>	Appropriate supportive and symptomatic treatment as indicated by the patient's condition is recommended. There is no specific antidote.

#### SECTION 5. FIRE FIGHTING MEASURES

<b>Flash point</b>	> 96.1 °C / 205.0 °F
<b>Autoignition temperature</b>	no data available
<b>Lower Flammability Limit</b>	no data available
<b>Upper Flammability Limit</b>	no data available



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<b>Fire and Explosion Hazards</b>	In the event of fire the following may be released: Carbon monoxide (CO) Carbon dioxide (CO <sub>2</sub> ) Nitrogen oxides (NO <sub>x</sub> )
<b>Suitable extinguishing media</b>	Dry powder, Foam, Carbon dioxide (CO <sub>2</sub> ), Water spray
<b>Fire Fighting Instructions</b>	Keep out of smoke. Fight fire from upwind position. Cool closed containers exposed to fire with water spray. Do not allow run-off from fire fighting to enter drains or water courses.  Firefighters should wear NIOSH approved self-contained breathing apparatus and full protective clothing.

## SECTION 6. ACCIDENTAL RELEASE MEASURES

<b>Personal precautions</b>	Keep unauthorized people away. Isolate hazard area. Avoid contact with spilled product or contaminated surfaces.
<b>Methods for cleaning up</b>	Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Collect and transfer the product into a properly labelled and tightly closed container. Clean contaminated floors and objects thoroughly, observing environmental regulations.
<b>Additional advice</b>	Use personal protective equipment. Do not allow to enter soil, waterways or waste water canal. Do not allow product to contact vegetation.

## SECTION 7. HANDLING AND STORAGE

<b>Handling procedures</b>	Maintain exposure levels below the exposure limit through the use of general and local exhaust ventilation. Handle and open container in a manner as to prevent spillage.  Vapours may form explosive mixture with air. Take measures to prevent the build up of electrostatic charge. Keep away from heat and sources of ignition.
<b>Storing Procedures</b>	Store in a cool, dry place and in such a manner as to prevent cross contamination with other crop protection products, fertilizers, food, and feed. Store in original container and out of the reach of children, preferably in a locked storage area.  Keep away from direct sunlight. Protect from freezing.
<b>Work/Hygienic Procedures</b>	Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, using the toilet or applying cosmetics.



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Remove Personal Protective Equipment (PPE) immediately after handling this product. Before removing gloves clean them with soap and water. Remove soiled clothing immediately and clean thoroughly before using again. Wash thoroughly and put on clean clothing.

## SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

<b>General Protection</b>	Follow all label instructions. Train employees in safe use of the product.  Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and warm/tepid water. Keep and wash PPE separately from other laundry.
<b>Eye/Face Protection</b>	Tightly fitting safety goggles
<b>Hand protection</b>	Chemical resistant nitrile rubber gloves
<b>Body Protection</b>	Use suitable protective clothing, gloves and footwear, selected with regard to use conditions and exposure potential. Wear long-sleeved shirt and long pants and shoes plus socks.
<b>Respiratory protection</b>	When respirators are required, select NIOSH approved equipment based on actual or potential airborne concentrations and in accordance with the appropriate regulatory standards and/or industry recommendations.

### Exposure Limits

Triticonazole	131983-72-7	OES BCS*	TWA	4 mg/m3
1,2-Propanediol	57-55-6	CAD ON OEL	TWAEV	50 ppm
		CAD ON OEL	TWAEV	10 mg/m3

\*OES BCS: Internal Bayer CropScience "Occupational Exposure Standard"

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance</b>	green
<b>Physical State</b>	liquid suspension
<b>Odor</b>	characteristic
<b>pH</b>	ca. 7.6 (10 %)
<b>Vapor Pressure</b>	no data available
<b>Vapor Density (Air = 1)</b>	no data available

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<b>Density</b>	1.08 g/cm <sup>3</sup>
<b>Evaporation rate</b>	no data available
<b>Boiling Point</b>	no data available
<b>Melting / Freezing Point</b>	no data available
<b>Water solubility</b>	dispersible
<b>Minimum Ignition Energy</b>	no data available
<b>Decomposition temperature</b>	no data available
<b>Partition coefficient: n-octanol/water</b>	no data available
<b>Viscosity</b>	500 - 1,100 cps

**SECTION 10. STABILITY AND REACTIVITY**

<b>Conditions to avoid</b>	Heat, flames and sparks. Static electricity. Extremes of temperature and direct sunlight.
<b>Incompatibility</b>	no data available
<b>Hazardous reactions</b>	No hazardous reactions when stored and handled according to prescribed instructions.
<b>Chemical Stability</b>	Stable under normal conditions.

**SECTION 11. TOXICOLOGICAL INFORMATION**

Only acute toxicity studies have been performed on the formulated product. The non-acute information pertains to the technical-grade active ingredient, triticonazole.

<b>Acute oral toxicity</b>	male/female combined rat: LD50: > 5,000 mg/kg
<b>Acute dermal toxicity</b>	male/female combined rat: LD50: > 2,000 mg/kg



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<b>Acute inhalation toxicity</b>	<p>male/female combined rat: LC50: &gt; 2.0 mg/l Exposure time: 4 h Determined in the form of liquid aerosol. highest concentration tested No deaths</p> <p>male/female combined rat: LC50: &gt; 8.0 mg/l Exposure time: 1 h Determined in the form of liquid aerosol. Extrapolated from the 4 hr LC50.</p>
<b>Skin irritation</b>	rabbit: Slight irritation
<b>Eye irritation</b>	rabbit: Mild eye irritation.
<b>Sensitisation</b>	guinea pig: Non-sensitizing.
<b>Chronic toxicity</b>	Triticonazole caused liver and/or adrenal effects in chronic studies in rats and dogs.

**Assessment Carcinogenicity**

Triticonazole was not carcinogenic in lifetime feeding studies in rats and mice.

**ACGIH**

None.

**NTP**

None.

**IARC**

None.

**OSHA**

None.

<b>Reproductive toxicity</b>	<p>REPRODUCTION: Triticonazole was not a primary reproductive toxicant in a two-generation reproduction study in rats. Reproductive effects were observed only at high doses that caused systemic toxicity in parental animals.</p> <p>DEVELOPMENTAL TOXICITY: Triticonazole was not a primary developmental toxicant in rats and rabbits. Any developmental effects observed were considered secondary to maternal toxicity.</p>
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<b>Assessment neurotoxicity</b>	Triticonazole was not a neurotoxicant in acute and subchronic neurotoxicity screening studies in rats.
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<b>Mutagenicity</b>	Triticonazole was not mutagenic or genotoxic in a battery of in vitro and in vivo tests.
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**SECTION 12. ECOLOGICAL INFORMATION**



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**Environmental precautions** Do not allow to get into surface water, drains and ground water. Do not contaminate surface or ground water by cleaning equipment or disposal of wastes, including equipment wash water. Do not apply when weather conditions favor runoff or drift. Apply this product as specified on the label.

**SECTION 13. DISPOSAL CONSIDERATIONS**

**General Disposal Guidance** Pesticide, spray mixture or rinse water that cannot be used according to label instructions may be disposed of on site or at an approved waste disposal facility.

**Container Disposal** Triple rinse containers. Then offer for recycling or reconditioning or puncture and dispose of in a sanitary landfill or incineration, or if allowed by State and Local authorities, by burning. If burned, stay out of smoke. Follow advice on product label and/or leaflet.

**SECTION 14. TRANSPORT INFORMATION**

**TDG** Not dangerous goods / not hazardous material

**49CFR** Not dangerous goods / not hazardous material

**IMDG**

UN-Number **3082**  
Class 9  
Packaging group III  
Marine pollutant YES  
Description of the goods ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (TRITICONAZOLE SOLUTION)

**IATA**

UN-Number **3082**  
Class 9  
Packaging group III  
Environm. Hazardous Mark YES  
Description of the goods ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (TRITICONAZOLE SOLUTION )

This transportation information is not intended to convey all specific regulatory information relating to this product. It does not address regulatory variations due to package size or special transportation requirements.

Freight Classification: INSECTICIDES OR FUNGICIDES, N.O.I., OTHER THAN POISON

**SECTION 15. REGULATORY INFORMATION**

**PCP Registration No.** 29109



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#### US Federal Regulations

##### TSCA list

1,2-Propanediol	57-55-6
Isodecyl poly(ethyleneoxy)ethanol	78330-20-8

##### US. Toxic Substances Control Act (TSCA) Section 12(b) Export Notification (40 CFR 707, Subpt D)

None.

##### SARA Title III - Section 302 - Notification and Information

None.

##### SARA Title III - Section 313 - Toxic Chemical Release Reporting

None.

#### US States Regulatory Reporting

##### CA Prop65

This product does not contain any substances known to the State of California to cause cancer.

This product does not contain any substances known to the State of California to cause reproductive harm.

##### US State Right-To-Know Ingredients

1,2-Propanediol	57-55-6	MN, RI
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#### Canadian Regulations

##### Canadian Domestic Substance List

1,2-Propanediol	57-55-6
Isodecyl poly(ethyleneoxy)ethanol	78330-20-8

#### Environmental

##### CERCLA

None.

##### Clean Water Section 307 Priority Pollutants

None.

##### Safe Drinking Water Act Maximum Contaminant Levels

None.

## SECTION 16. OTHER INFORMATION

NFPA 704 (National Fire Protection Association):

Health - 2	Flammability - 1	Instability - 0	Others - none
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HMIS (Hazardous Materials Identification System, based on the Third Edition Ratings Guide)

Health - 1	Flammability - 1	Physical Hazard - 0	PPE -
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0 = minimal hazard, 1 = slight hazard, 2 = moderate hazard, 3 = severe hazard, 4 = extreme hazard

Reason for Revision: Reviewed and updated for general editorial purposes.

Prepared by the HSE Department of Bayer CropScience Inc. (306)-721-0310.



Bayer CropScience



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