

# Safety data sheet

## CYCOCEL® EXTRA

Revision date : 2009/03/18  
Version: 1.0

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(30056754/SDS\_CPA\_CA/EN)

### 1. Substance/preparation 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)

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Substance number:	000000024985
Chemical family:	crop protection product, water-soluble concentrate (SL), growth regulator
Synonyms:	Chlormequat chloride 460 g/L

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### 2. Hazardous ingredients

Not WHMIS controlled.

### 3. Hazard identification

Emergency overview

CORROSIVE.

Potential health effects

See Product Label for additional precautionary statements.

**Acute toxicity:**

No known acute effects.

**Irritation:**

Not irritating to eyes and skin.

### 4. First-aid measures

**General advice:**

Avoid contact with the skin, eyes and clothing. Take off immediately all contaminated clothing. If difficulties occur: Obtain medical attention. Show container, label and/or safety data sheet to physician.

**If inhaled:**

Keep patient calm, remove to fresh air. Assist in breathing if necessary. Consult a physician.

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### **If on skin:**

Wash affected areas thoroughly with soap and water. Remove contaminated clothing. If irritation develops, seek medical attention.

### **If in eyes:**

Hold eyelids open to facilitate rinsing. Flush with copious amounts of water for at least 15 minutes. If symptoms persist, seek medical advice.

### **If swallowed:**

Rinse mouth and then drink plenty of water. Do not induce vomiting. Immediate medical attention required.

### **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: (DIN EN 22719; ISO 2719) Non-flammable.  
Autoignition: 365 °C (DIN 51794)

### **Suitable extinguishing media:**

water spray, foam, dry extinguishing media, carbon dioxide

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

Hydrogen chloride, carbon monoxide, 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

### **Environmental precautions:**

Do not discharge into drains/surface waters/groundwater. Do not discharge into the subsoil/soil.

### **Cleanup:**

Dispose of absorbed material in accordance with regulations. Collect waste in suitable containers, which can be labeled and sealed. Clean contaminated floors and objects thoroughly with water and detergents, observing environmental 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:**

No special measures necessary if stored and handled correctly.

#### **Protection against fire and explosion:**

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

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### Storage

#### **Storage incompatibility:**

General: Segregate from foods and animal feeds.

#### **Storage stability:**

Storage duration: 24 Months

#### **Temperature tolerance**

Protect from temperatures above: 35 °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

#### **RECOMMENDATIONS FOR MANUFACTURING, COMMERCIAL BLENDING, AND PACKAGING WORKERS:**

#### **Respiratory protection:**

Wear a NIOSH-certified (or equivalent) organic vapour/particulate respirator as needed.

#### **Hand protection:**

Chemical resistant protective gloves

#### **Eye protection:**

Safety glasses with side-shields (frame goggles) (e.g. EN 166)

#### **Body protection:**

Body protection must be chosen based on level of activity and exposure.

#### **General safety and hygiene measures:**

The statements on personal protective equipment in the instructions for use apply when handling crop-protection agents in final-consumer packing. Avoid contact with the skin, eyes and clothing. Wearing of closed work clothing is recommended. Wash soiled clothing immediately.

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## 9. Physical and chemical properties

Form:	liquid	
Odour:	amine-like	
Odour threshold:	No data available.	
Colour:	yellowish to brown	
pH value:	5 - 7	( 20 °C) (measured with the undiluted substance)
	approx. 5.8	( 0.5 %(m))
	3.7 - 4.0	( 10 g/l)
crystallization temperature:	-20 °C	
:		not applicable
Vapour pressure:	approx. 23.4 hPa	( 20 °C) Information applies to the solvent.
Density:	approx. 1.13 g/cm <sup>3</sup>	( 20 °C)
Bulk density:		dropped
Partitioning coefficient n-octanol/water (log Pow):		not applicable

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Viscosity, dynamic:	approx. 24.9 mPa.s	( 20 °C) (DIN 53019)
	19.5 mPa.s	( 20 °C)
Solubility in water:		fully soluble

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### 10. Stability and reactivity

**Substances to avoid:**

bases

**Hazardous reactions:**

Corrodes aluminum.

**Decomposition products:**

Hazardous decomposition products: No hazardous decomposition products if stored and handled as prescribed/indicated.

**Thermal decomposition:**

No decomposition if stored and handled as prescribed/indicated.

**Oxidizing properties:**

not fire-propagating (calculated)

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### 11. Toxicological information

**Acute toxicity**

**Oral:**

LD50/rat: 2,836 mg/kg

**Inhalation:**

LC50/rat: > 7.6 mg/l / 4 h

An aerosol was tested.

**Dermal:**

LD50/rat: > 5,650 mg/kg

**Skin irritation:**

rabbit: non-irritant

**Eye irritation :**

rabbit: non-irritant

**Sensitization:**

Guinea pig maximization test/: Skin sensitizing effects were not observed in animal studies.

**Chronic toxicity**

**Other information:**

Misuse can be harmful to health.

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### 12. Ecological information

*Information on: chlormequat chloride*

*Test method:* OECD 301E; 84/449/EEC, C.3 (aerobic), municipal sewage treatment plant effl.

*Method of analysis:* DOC reduction

*Degree of elimination:* 50 - 60 % (28 d)

*Information on: cholin chloride*

*Test method:* OECD 301C; ISO 9408; 92/69/EEC, C.4-F (aerobic), activated sludge, domestic

*Method of analysis:* BOD of the ThOD

*Degree of elimination:* 93 % (14 d)

*Evaluation:* Evaluation: Not readily biodegradable (by OECD criteria).

Moderately/partially biodegradable.

Readily biodegradable (according to OECD criteria).

#### **Environmental toxicity**

*Information on: chlormequat chloride*

*Acute and prolonged toxicity to fish:*

OECD 203; ISO 7346; 84/449/EEC, C.1 static

carp/LC50 (96 h): > 100 mg/l

The details of the toxic effect relate to the nominal concentration.

*Information on: cholin chloride*

*Acute and prolonged toxicity to fish:*

OECD Guideline 203 Flow through.

Oryzias latipes/LC50 (96 h): > 100 mg/l

The details of the toxic effect relate to the nominal concentration.

*Information on: chlormequat chloride*

*Acute toxicity to aquatic invertebrates:*

DIN 38412 Part 11 Daphnia magna/EC50 (48 h): 16.9 mg/l

The details of the toxic effect relate to the nominal concentration.

*Information on: cholin chloride*

*Acute toxicity to aquatic invertebrates:*

OECD Guideline 202, part 1 static

Daphnia magna/EC50 (48 h): 349 mg/l

The details of the toxic effect relate to the nominal concentration.

*Information on: chlormequat chloride*

*Toxicity to aquatic plants:*

OECD Guideline 201 static

green algae/EC50 (96 h): > 100 mg/l

The product has not been tested. The data have been deduced from values for a preparation or mixture with a lower substance concentration.

static

swollen duckweed/EC50 (7 d): 28.0 mg/l

The product has not been tested. The data have been deduced from values for a preparation or mixture with a lower substance concentration.

*Information on: cholin chloride*

*Toxicity to aquatic plants:*

OECD Guideline 201 static

green algae/EC50 (72 h): > 1,000 mg/l

The details of the toxic effect relate to the nominal concentration.

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### Toxicity to microorganisms:

Inhibition of degradation activity in activated sludge is not to be anticipated during correct introduction of low concentrations.

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## 13. Disposal considerations

### Waste disposal of substance:

See product label for disposal and recycling instructions.

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## 14. Transport information

Reference Bill of Lading

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## 15. Regulatory information

### Federal Regulations

#### Registration status:

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

**Refer to product label for EPA registration number.**

Recommended use: crop protection product

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### Local contact information

BASF Canada Product Safety

prod\_reg@basf.com

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