

# Safety Data Sheet

## AVERT DRY FLOWABLE FORMULA 1

Revision date : 2011/06/14

Version: 1.1

Page: 1/6

(30500040/SDS\_CPA\_CA/EN)

### 1. Product 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)

PCP # 28403

Synonyms:

Abamectin B1

### 2. Hazards Identification

Emergency overview

CAUTION:

Eye irritant.

Contains 1-(3-chloroallyl)-3,5,7-Triaza-1-Azoniaadamantane Chloride.

KEEP OUT OF REACH OF CHILDREN.

HARMFUL IF SWALLOWED.

HARMFUL IF INHALED.

HARMFUL IF ABSORBED THROUGH SKIN.

Avoid contact with the skin, eyes and clothing.

Do not breathe dust.

State of matter: solid

Colour: brown

Odour: mild

Potential health effects**Acute toxicity:**

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

**Irritation / corrosion:**

May cause slight but temporary irritation to the eyes. Contact may result in skin irritation.

**Sensitization:**

Skin sensitizing effects were not observed in animal studies.

### 3. Composition / Information on Ingredients

Not WHMIS controlled.

# Safety Data Sheet

## AVERT DRY FLOWABLE FORMULA 1

Revision date : 2011/06/14  
Version: 1.1

Page: 2/6  
(30500040/SDS\_CPA\_CA/EN)

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### 4. First-Aid Measures

**General advice:**

Avoid contact with the skin, eyes and clothing. Take off immediately all contaminated clothing. First aid personnel should pay attention to their own safety. If the patient is likely to become unconscious, place and transport in stable sideways position (recovery position). 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, seek medical attention.

**If on skin:**

After contact with skin, wash immediately with plenty of water and soap. If irritation develops, seek medical attention.

**If in eyes:**

Immediately wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist.

**If swallowed:**

If swallowed, seek medical advice immediately and show this container or label. Never induce vomiting or give anything by mouth if the victim is unconscious or having convulsions. Do not induce vomiting unless told to by a poison control center or doctor. Rinse mouth immediately with water.

**Note to physician**

Treatment: Treat symptomatically.

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### 5. Fire-Fighting Measures

Flash point:

Substance/product is non-flammable.

Flammability:

does not ignite

**Suitable extinguishing media:**

dry powder, foam, carbon dioxide

**Hazards during fire-fighting:**

carbon monoxide, carbon dioxide,

If product is heated above decomposition temperature, toxic vapours will be released. 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:**

Keep containers cool by spraying with water if exposed to fire. In case of fire and/or explosion do not breathe fumes. 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

**Personal precautions:**

Use personal protective clothing. Avoid contact with the skin, eyes and clothing.

**Environmental precautions:**

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

# Safety Data Sheet

## AVERT DRY FLOWABLE FORMULA 1

Revision date : 2011/06/14

Page: 3/6

Version: 1.1

(30500040/SDS\_CPA\_CA/EN)

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### **Cleanup:**

Collect waste in suitable containers, which can be labeled and sealed. Clean contaminated floors and objects thoroughly with water and detergents, observing environmental regulations. Incinerate or take to a special waste disposal site in accordance with local authority regulations.

For small amounts: Contain with dust binding material and dispose of.

For large amounts: Sweep/shovel up.

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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:**

Avoid all sources of ignition: heat, sparks, open flame. The product is combustible but not self combustible not explosive and does not add to the spreading of fire. Dust can form an explosive mixture with air.

### **Storage**

#### **General advice:**

Protect against moisture. Keep away from heat. Protect from direct sunlight.

#### **Storage incompatibility:**

General advice: Segregate from foods and animal feeds. Odour-sensitive: Segregate from products releasing odours.

#### **Storage stability:**

Storage duration: 12 Months

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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.**

#### **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. Breathing protection if breathable aerosols/dust are formed.

#### **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:**

RECOMMENDATIONS FOR MANUFACTURING, COMMERCIAL BLENDING, AND PACKAGING WORKERS  
Wear long sleeved work shirt and long work pants in addition to other stated personal protective equipment.

# Safety Data Sheet

## AVERT DRY FLOWABLE FORMULA 1

Revision date : 2011/06/14

Page: 4/6

Version: 1.1

(30500040/SDS\_CPA\_CA/EN)

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.

### 9. Physical and Chemical Properties

|                      |                         |                |
|----------------------|-------------------------|----------------|
| Form:                | powder                  |                |
| Odour:               | mild                    |                |
| Odour threshold:     | No data available.      |                |
| Colour:              | brown                   |                |
| pH value:            | 4.9                     | ( 1 %(m))      |
| Melting point:       |                         | not applicable |
| Boiling point:       |                         | not applicable |
| Relative density:    | 0.619                   | ( 23 °C)       |
| Bulk density:        | 672.8 kg/m <sup>3</sup> |                |
| Solubility in water: |                         | insoluble      |

### 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. This product may form an explosive mixture if: 1. the dust is suspended in the atmosphere as a dust cloud AND 2. the concentration of the dust is above the lower explosion limit (LEL) AND 3. the limiting oxygen concentration (LOC) is exceeded.

#### Hazardous reactions:

The product is chemically stable.

No hazardous reactions when stored and handled according to instructions.

#### 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

### 11. Toxicological information

#### Acute toxicity

##### Oral:

Type of value: LD50

Species: rat (male/female)

Value: > 5,000 mg/kg (other)

##### Inhalation:

Type of value: LC50

Not inhalable due to the physico-chemical properties of the product.

##### Dermal:

Type of value: LD50

Species: rabbit (male/female)

# Safety Data Sheet

## AVERT DRY FLOWABLE FORMULA 1

Revision date : 2011/06/14  
Version: 1.1

Page: 5/6  
(30500040/SDS\_CPA\_CA/EN)

Value: > 2,000 mg/kg (other)

### Irritation / corrosion

#### Skin:

Species: rabbit  
Result: non-irritant  
Method: Primary skin irritation test

#### Eye:

Species: rabbit  
Result: non-irritant  
Method: Primary eye irritation test  
May cause slight irritation to the eyes.

### Genetic toxicity

*Information on: Abamectin*

*Results from a number of mutagenicity studies with microorganisms, mammalian cell culture and mammals are available. Taking into account all of the information, there is no indication that the substance is mutagenic.*

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### Carcinogenicity

*Information on: Abamectin*

*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: Abamectin*

*The results of animal studies suggest a fertility impairing effect with high doses.*

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### Development:

*Information on: Abamectin*

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

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## 12. Ecological Information

### Fish

*Information on: Abamectin*

*Acute:*

*Oncorhynchus mykiss/LC50 (96 h): 0.0036 mg/l*

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### Aquatic invertebrates

*Information on: Abamectin*

*Acute:*

*Daphnia magna/EC50 (48 h): 0.00034 mg/l*

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### Aquatic plants

*Information on: Abamectin*

*Toxicity to aquatic plants:*

*OECD Guideline 201 static*

# Safety Data Sheet

## AVERT DRY FLOWABLE FORMULA 1

Revision date : 2011/06/14  
Version: 1.1

Page: 6/6  
(30500040/SDS\_CPA\_CA/EN)

green algae/EC50 (72 h): > 6.1 mg/l  
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Not readily biodegradable (by OECD criteria).  
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### 13. Disposal considerations

**Waste disposal of substance:**

Must be disposed of or incinerated in accordance with local regulations.

**Container disposal:**

Contaminated packaging should be emptied as far as possible and disposed of in the same manner as the substance/product.

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### 14. Transport Information

Reference Bill of Lading

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### 15. Regulatory Information

**Federal Regulations**

**Registration status:**

Chemical                    DSL, CA        released; restriction on quantity / 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

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 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:**

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END OF DATA SHEET