

# MATERIAL SAFETY DATA SHEET

IN CASE OF EMERGENCY CALL CANUTEC 613-996-6666

## 1. Identification of the substance/preparation and company/undertaking:

Product name: Cilis Plus®

Use of product: Horticultural plant growth regulator for professional use

Supplier: Fine Agrochemicals, Ltd., Hill End House, Whittington, Worcester  
WR5 2RQ, United Kingdom. Tel: + 44-1905-361800

Distributed by: N.M. Bartlett Inc., 4509 Bartlett Rd, Beamsville, Ontario, L0R 1B1,  
Canada. Tel: 905-563-8261

## 2. Composition/information on ingredients:

Product: A solution of 2% 6-benzylaminopurine

CAS No: 1214-39-7 (active ingredient)

EINECS No: 214-927-5 (active ingredient)

PCPA Reg. No: 29210

Concentration: 21 grams ai/ liter

Hazardous Ingredients: 6-benzylaminopurine technical  
- Caution Poison (LD<sub>50</sub>Rat: male 2094 mg/kg, female 814 mg/kg)  
- Warning Eye Irritant (Mild)

Exposure Limits: Not relevant

## 3. Hazards identification:

Keep out of reach of children.

## 4. First aid measures:

After inhalation: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth to mouth if possible.

After skin contact: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control centre or doctor for treatment advice.

After eye contact: 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 poison control centre or doctor for treatment advice.

After swallowing: Call a poison control centre or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control centre or doctor. Do not give anything by mouth to an unconscious person.

## 5. Fire fighting measures:

- Flashpoint (CIPAC MT 12.3 Closed cup) : 105°C
- Autoignition temperature : > 400°C
- Conditions of Flammability/Exposure Hazards : Non flammable
- Extinguishing media : Use water mist, CO<sub>2</sub>, foam or dry powder
- Fire-Fighting Instructions : Evacuate area. Fight fire from safe distance. If possible isolate materials.
- Protection of Firefighters : Wear protective clothing to prevent contact with skin and eyes.
- Products of combustion and decomposition : At very high temperatures Cilis Plus will decompose to form carbon, chlorine, nitrogen and sulfur compounds. Combustion of monopropylene glycol may produce aldehydes.
- Explosion data
  - Sensitivity to impact : No data
  - Sensitivity to static discharge : No data

## 6. Accidental release measures:

- Personal precautions: Wear protective clothing, see Section 8 "Exposure control/personal protection".
- Environmental precautions: Prevent contaminated water entering drains.
- Methods for cleaning up: Isolate spilled material for safe disposal and collect in sealable poly-lined containers, clean contaminated area with water.

## 7. Handling and storage:

- Handling: Keep away from drink and foodstuffs. Do not smoke in the workplace. Avoid contact with spray. Wash thoroughly after handling.
- Storage: Store in cool dry conditions in original well marked containers. Avoid contamination of seed, feed and foodstuffs.

## 8. Exposure controls/personal protection:

- Exposure controls: To avoid risks to man and the environment comply with instructions for use. Also see Section 15 "Regulatory Information".
- Engineering Controls: No special ventilation requirements. Good general ventilation should be sufficient to control worker exposure to any airborne contaminants.
- Occupational exposure controls:
- Respiratory protection: No respiratory protection should be needed.
  - Hand protection: Chemical-resistant gloves.
  - Eye protection: Wear goggles or a face shield during mixing, loading, application, clean-up, and repair activities.
  - Skin protection: Wear long pants, a long-sleeved shirt, shoes plus socks.

## 9. Physical and chemical properties:

### General information:

- Appearance and physical state: Colorless liquid
- Odor: Slightly sweet odor

### Important health, safety and environmental information:

- pH (1% solution): 4.4
- Boiling point: 185-189°C
- Flash point: 104.5 °C
- Explosive properties: Non explosive
- Oxidizing properties: Non oxidizing
- Vapor pressure:  $5.5 \times 10^{-6}$  Pa @ 25°C (active ingredient)
- Relative density: 1.04 g/ml
- Solubility
  - water solubility: Completely soluble in water @ 20°C
  - fat solubility: No data
- Partition coefficient: 2.16 log P<sub>OW</sub> (active ingredient pH 7)
- Viscosity: 60 mPa.s @ 20°C
- Vapor density: No data
- Evaporation rate: No data

Other information: Auto ignition > 400°C

## 10. Stability and reactivity:

Stability: Stable in original containers for at least 2 years at ambient temperatures.

Conditions to avoid: Excessive heat

Materials to avoid: Incompatible with strong oxidizing agents

Hazardous decomposition products: None under normal conditions of storage and use

Hazardous Polymerization: No data

## 11. Toxicological information:

Routes of entry: eyes, skin, inhalation and ingestion.

### Acute toxicity (For Cilis Plus):

- Oral: LD50 Rat: >2 000mg/kg
- Inhalation: LC50 Rat: >5.02 mg/l
- Dermal: LD50 Rat: >2 000 mg/kg

### Irritation (For Cilis Plus):

- Eye: Non-irritant
- Skin: Non-irritant
- Respiratory tract: Non-irritant

### Sensitization (For Cilis Plus):

- Skin: Non-sensitizing
- Respiratory tract : Non-irritant

## 11 Toxicological information continued:

Chronic toxicity (for active ingredient):

- Carcinogenicity: Not carcinogenic
- Mutagenicity: Not mutagenic
- Toxicologically Synergistic Materials : No data
- Reproductive toxicity: Not reprotox
  - Teratogenicity/embryotoxicity : Not teratogenic

## 12. Ecological information:

Ecotoxicity (for Cilis Plus unless stated):

- Fish: LC50 (96h) >100 mg/l
- Daphnia: EC50 (48h) >100 mg/l
- Algae: EC50 (72h) > 100 mg/l
- Bird: LD<sub>50</sub> 1599 mg/kg for northern bobwhite (Active ingredient)
- Bee: LD<sub>50</sub> oral >400µg/bee
- General: No known toxic effect on wildlife or beneficial insects

Persistence and degradability: >99.5% in aqueous media, half-life 5 days.

## 13. Disposal considerations:

**Product disposal:** For information on the disposal of unused, unwanted product, contact the manufacturer and the provincial regulatory agency. Contact the manufacturer and the provincial regulatory agency in case of a spill, and for clean-up of spills.

**Packaging disposal:** Do not reuse this container for any purpose. This is a recyclable container, and is to be disposed of at a container collection site. Contact your local distributor/dealer or municipality for the location of the nearest collection site. Before taking to the collection site: Triple- or pressure-rinse the empty container. Add the rinsings to the spray mixture in the tank. Make the empty container unsuitable for further use. If there is no collection site in your area, dispose of the container in accordance with provincial requirements.

## 14. Transport information:

TDG (Canada) Status:	Not classified
UN number:	Not classified
NMFC number:	101685
Class:	065
Proper shipping name:	Plant growth inhibitor, modifier or regulator
Packaging group:	Not classified
Marine Pollutant:	Not classified
Other applicable information:	None

**15. Regulatory information:**

Symbol(s):	None	
Risk Phrases:	None	
Safety Phrases:	S2	Keep out of reach of children
	S13	Keep away from food, drink and animal feed stuffs
	S20/21	When using, do not eat, drink or smoke
	S24/25	Avoid contact with skin and eyes
	S35	This container and its contents must be disposed of in a safe way
	S36/37	Wear suitable protective clothing and gloves

Canada

The product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

**16. Other information:**

For further information on the product and product use refer to the product label.

This version supersedes all previous versions. Prepared by Fine Americas, Inc. on the basis of the best available data. No representation is given that the information provided is complete in all respects.

