

SAFETY DATA SHEET

1. Identification:		
Product Identifier:	Cilis Plus®	
Other Means of Identification:	PCPA registration number 29210	
Distributed by:	N.M. Bartlett Inc. 4509 Bartlett Rd, Beamsville, Ontario, L0R 1B1, Canada Tel: 905-563-8261	
Emergency Phone Number:	Chemtrec 1-800-424-9300 (24 hours) Canutec 613-996-6666 (24 hours)	
Recommended Use:	Plant growth regulator for post-bloom thinning and enhancement of fruit size of apples and pears	
Restrictions on Use:	Keep out of reach of children	
2. Hazard(s) Identification (This product is classified as non-hazardous as defined by Hazardous Products Regulations SOR/2015-17):		
Class/Category:	Not Classified	
Route of Exposure:	Most likely exposure routes are dermal and oral.	
Hazards Not Otherwise Classified:	None known	
Signal Word:	None	
Symbol(s):	None	
Hazard Statements:	None assigned	
Precautionary Statements:	Prevention: None assigned Response: None assigned Storage: None assigned Disposal: None assigned	
3. Composition:		
CAS number:	Component:	Percent:
1214-39-7	6-benzylaminopurine (6-BA)	2.0%
77-92-9	Citric acid	0.3%
The remainder of the mixture is not required to be disclosed by SOR/2015-17		
4. First Aid Measures:		
Inhalation:	Move person 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 poison control center or doctor for further treatment advice	
Eyes:	Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing. If eye irritation persists get medical advice / attention.	
Skin:	Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice	
Ingestion:	Call a poison control center 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 center or doctor. Do not give anything to an unconscious person.	
Symptoms/Effects:	Acute: No available information Delayed: No available information	
Indication of immediate medical attention and special treatment needed, if necessary:	No available information	
5. Fire Fighting Measures:		
Extinguishing Media:	Suitable: Water mist, CO ₂ , foam or dry powder. Unsuitable: High power water jet	
Specific Hazards Arising from the Chemical:	At very high temperatures will decompose to form carbon, nitrogen, compounds and aldehydes.	

Protective equipment and Precautions for Firefighters:	Breathable air apparatus must be worn when fighting a fire in which this product is involved.						
6. Accidental Release Measures:							
Personal Precautions, Protective Equipment and Emergency Procedures:	See Section 8 "Exposure controls/personal protection"						
Methods for Containment and Clean-Up:	<p>Isolate spilled material for safe disposal and collect in sealable polylined containers, clean contaminated area with water. Prevent water from entering drains.</p> <p>Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility. See also Section 13. Disposal Considerations.</p>						
7. Handling and Storage:							
Precautions for Safe Handling:	Users should wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.						
Conditions for Safe Storage:	Keep container tightly closed when not in use. Store below 75°F. See also Section 10. Stability and Reactivity.						
8. Exposure Controls/Personal Protection:							
Component Exposure Limits:							
Substance	Canada Ontario		Canada Quebec		Canada Saskatchewan		ACGIH TLV
	ppm STEL	ppm TWA	ppm STEV	Mg/m3 TWA EV	ppm STEL	ppm TWA	8-hr TWA (ST) STEL (C) Ceiling
57-55-6	-	50 (v)	-	-	-	-	
Appropriate Engineering Controls:	No applicable information available.						
Personal Protective Equipment:	<p>Eyes/Face: Wear suitable eye/face protection.</p> <p>Skin: Wear long sleeved shirt and long pants, socks, shoes, and gloves. Remove and wash contaminated clothing before reuse.</p> <p>Respiratory: A respirator is not normally required when handling this substance.</p>						
9. Physical and Chemical Properties:							
Appearance:	Colorless liquid						
Odor:	Slightly sweet						
Odor Threshold:	No data available						
pH:	4.4 (1% solution)						
Melting Point/Freezing Point:	No data available						
Boiling Point:	~ 365-372°F (185-189°C)						
Flash Point:	220°F (104.5°C) (closed cup)						
Evaporation Rate:	No data available						
Flammability/Limits:	Not flammable LFL: not applicable UFL: not applicable						
Vapor Pressure:	5.5x10 ⁻⁶ Pa @ 77°F (25°C) (active ingredient)						
Vapor Density:	No data available						
Relative Density:	1.04 g/ml						
Solubility (H₂O):	Completely soluble						
Partition Coefficient:	2.16 log P _{OW} (active ingredient pH 7)						
Auto-Ignition Temperature:	>750°F (400°C)						

Decomposition Temperature:	No data available		
Viscosity:	60-94 cSt (spindle speed dependant) 68°F		
10. Chemical Stability and Reactivity Information:			
Reactivity:	No applicable information available		
Chemical Stability:	Stable in original containers for at least 2 years at ambient temperatures.		
Possibility of Hazardous Reactions:	No applicable information available		
Conditions to Avoid:	Excessive heat		
Incompatible Materials:	Strong oxidizing agents		
Hazardous Decomposition Products:	None under normal conditions of storage and use.		
11. Toxicological Information:			
Likely Routes of Exposure:	Most likely exposure by Dermal or oral route		
Symptoms:	Inhalation: Non-irritant Eye: Non-irritant Skin: Non-irritant Ingestion: No data available		
Acute Toxicity:	Oral:	LD ₅₀ Rat >2,000 mg/kg	(EPA category III)
	Inhalation:	LC ₅₀ Rat >5.02 mg/l	(EPA category IV)
	Dermal:	LD ₅₀ Rat >2,000 mg/kg	(EPA category III)
Skin Corrosion/Irritation:	Non-irritant (rabbit)		(EPA category IV)
Serious Eye Damage/Eye Irritation:	Non-irritant (rabbit)		(EPA category IV)
Sensitization:	Non-sensitizing (guinea pig)		
Germ Cell Mutagenicity:	Not mutagenic (active ingredient)		
Carcinogenicity:	None of the components of this product are listed as carcinogens by NTP, IARC or OSHA.		
Reproductive/Developmental Toxicity:	No data available.		
Specific Target Organ Toxicity:	Single Exposure:	No data available	
	Repeated Exposure:	No data available	
12. Ecological Information:			
Ecotoxicity:			
	Species:	Exposure Time	LC50/EC50/IC50
	Fish	96 hr	LC50 >100 mg/L
	Daphnia	48 hr	EC50 >100 mg/L
	Algae	72 hr	EC50 >100 mg/L
	Bird (Northern Bobwhite)	n/a	LD50 > 1,599 mg/kg
	Bee	n/a	LD50 > 4,000 µg
	General - No known toxic effect on wildlife or beneficial insects		
Persistence and Degradability:	>99.5% in aqueous media, half-life 5 days.		
Bioaccumulation Potential:	No data available.		
Mobility in Soil:	No data available.		
Other Adverse Effects:	None known		
13. Disposal Considerations:			
Disposal Instructions:	<p>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.</p> <p>If there is no collection site in your area, dispose of the container in accordance with provincial requirements.</p>		

	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.
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14. Transport Information:

UN/TDG Proper Shipping Name:	Not applicable
Hazard Class:	Not applicable
UN/TDG Number:	Plant growth inhibitor, modifier or regulator
Packing group:	Not applicable
Marine Pollutant:	No
NMFC Number:	101685/65 Plant growth inhibitor, modifier or regulator, NOIBN

15. Regulatory Information:

DSL/NDL:	1214-39-7, 77-92-9 and 57-55-6 listed in DSL
TSCA:	All components of this product are either listed or are exempt on the TSCA inventory. The following components of this product are subject to the reporting requirements of Section 12(b) of TSCA: None

This chemical is a pesticide product registered by the Pest Management Regulatory Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label.

PMRA signal word:	None
Precautionary Statements:	<p>KEEP OUT OF REACH OF CHILDREN.</p> <p>Causes moderate eye irritation. Avoid contact with eyes, skin or clothing.</p> <p>Harmful if swallowed or absorbed through skin. Wash thoroughly with soap and water after handling. Remove and wash contaminated clothing before re-use.</p> <p>Wear long pants, a long-sleeved shirt, shoes plus socks, chemical-resistant gloves and goggles or a face shield during mixing, loading, application, clean-up, and repair activities.</p> <p>Users should wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.</p> <p>Apply only when the potential for drift to areas of human habitation or areas of human activity such as houses, cottages, schools, and recreational areas is minimal. Take into consideration wind speed, wind direction, temperature, application equipment, and sprayer settings.</p> <p>Do not re-enter or allow re-entry into treated areas until 12 hours after application.</p> <p>Do not contaminate feed or food.</p>
Pictograms/Symbols:	None

16. Other Information:

	None
Issue Date/Version:	5/19/17 version 5
Supersedes:	3/5/16 version 4