

SAFETY DATA SHEET

1. Identification:

Product Identifier:	Novagib® 10L
Other Means of Identification:	PCPA registration number 30403
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 solution for use on apples
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:	Eye Irritation category 2B
Route of Exposure:	Most likely exposure by Dermal or oral route
Hazards Not Otherwise Classified:	None
Signal Word:	WARNING
Symbol(s):	None
Hazard Statements:	H320 Causes eye irritation.
Precautionary Statements:	Prevention: P264 Wash hands thoroughly after handling. Response: P305+351+338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing. P337+313 If eye irritation persists get medical advice / attention. Storage: None assigned Disposal: None assigned

3. Composition:

CAS number:	Component:	Percent:
8030-53-3	Gibberellins A ₄ and A ₇ (GA4/7)	0.95%

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), foam, carbon dioxide or dry powder. Unsuitable: High power water jet
Specific Hazards Arising from the Chemical:	May give rise to hazardous fumes in a fire. Products of combustion and decomposition: carbon monoxide and dioxide
Protective equipment and Precautions for Firefighters:	Wear protective gloves/protective clothing/eye protection/face protection.

6. Accidental Release Measures:

Personal Precautions, Protective Equipment and Emergency Procedures:	Refer to Section 8 "Exposure controls/personal protection"
Methods for Containment and Clean-Up:	In case of spillage use absorbent materials. Isolate spilled material for safe disposal and collect in sealable poly-lined containers. Ventilate area. Clean contaminated area with water. 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

7. Handling and Storage:

Precautions for Safe Handling:	Wash thoroughly with soap and water after handling. Wear long pants, a long-sleeved shirt and shoes plus socks during mixing/loading, application, clean-up, and repair activities. In addition, wear chemical-resistant gloves during mixing/loading, clean-up and repair activities. Users should wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.
Conditions for Safe Storage:	Avoid contamination of seed, feed and foodstuffs. Keep container closed when not in use. Store below 75°F (24°C). 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 TWAEV	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: Protective eyewear. For overhead exposure, wear chemical-resistant headgear.</p> <p>Skin: Long-sleeved shirt and long pants. Chemical-resistant gloves. Socks and shoes. Chemical-resistant apron when mixing or loading this product, or cleaning equipment.</p> <p>Respiratory: A respirator is not normally required when handling this substance.</p>						

9. Physical and Chemical Properties:

Appearance:	Clear colorless liquid
Odor:	Alcoholic
Odor Threshold:	No data available
pH:	4.1 (1% solution)
Melting Point/Freezing Point:	No data available
Boiling Point:	356°F (180°C)
Flash Point:	187°F (86°C) (closed cup)
Evaporation Rate:	No data available
Flammability/Limits:	Not flammable

	LFL: not applicable UFL: not applicable
Vapor Pressure:	10.7 Pa @ 68°F (20°C)
Vapor Density:	2.6 g/l (solvent)
Relative Density:	1.04 g/ml at 68°F (20°C)
Solubility (H₂O):	Soluble
Partition Coefficient:	-0.92 log P _{OW}
Auto-Ignition Temperature:	>752°F (400°C)
Decomposition Temperature:	No data available
Viscosity:	57.8 cSt at 68°C

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. (40-70°F)
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: No data available Eye: Transient mild irritation Skin: Non-irritant Ingestion: No data available		
Acute Toxicity:	Oral:	LD ₅₀ Rat >5,000 mg/kg	(EPA category IV)
	Inhalation:	LC ₅₀ Rat >5.41 mg/l	(EPA category IV)
	Dermal:	LD ₅₀ Rat >4,000 mg/kg	(EPA category III)
Skin Corrosion/Irritation:	Non-irritant (rabbit)		(EPA category IV)
Serious Eye Damage/Eye Irritation:	Transient mild irritation (rabbit)		(EPA category III)
Sensitization:	Non-sensitizing (guinea pig)		
Germ Cell Mutagenicity:	Not mutagenic		
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 >60 mg/L
Bee	48hr	LD50 (oral) 16.19µg/bee, (contact) 0.84µg/bee
Beneficials	7 day	>80 L product/ha
Earthworm	n/a	>1,000 mg product/kg soil dry weight
General - No known toxic effect on wildlife or beneficial insects		
Persistence and Degradability:	Degrades rapidly under biological conditions.	
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 the container 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> <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.</p>
14. Transport Information:	
UN/TDG Proper Shipping Name:	Not applicable
Hazard Class:	Not applicable
UN/TDG Number:	Not applicable
Packing group:	Not applicable
Marine Pollutant:	Not applicable
NMFC Number:	101685/065 Plant growth inhibitor, modifier or regulator, NOIBN
15. Regulatory Information:	
DSL/NDSL:	57-55-6 listed DSL
TSCA:	<p>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:</p> <p>None</p>
<p>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.</p>	
PMRA signal word:	None
Precautionary Statements:	<p>KEEP OUT OF REACH OF CHILDREN.</p> <ul style="list-style-type: none"> • Wash thoroughly with soap and water after handling. • Wear long pants, a long-sleeved shirt and shoes plus socks during mixing/loading, application, clean-up, and repair activities. In addition, wear chemical-resistant gloves during mixing/loading, clean-up and repair activities. • Users should wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet. • Do not re-enter or allow re-entry into treated areas until 12 hours after application. • 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.
Pictograms/Symbols:	None
16. Other Information:	
None	
Issue Date/Version:	5/19/17 version 4
Supersedes:	3/5/16 version 3