


SAFETY DATA SHEET

1. Identification:

Product Identifier:	Florgib® 4L
Other Means of Identification:	PCPA registration number 29884
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 hazardous as defined by Hazardous Products Regulations SOR/2015-17):

Class/Category:	Flammable liquid, category 2, Eye irritant, category 2A
Route of Exposure:	Potential routes of exposure - Oral, Dermal, Inhalation
Hazards Not Otherwise Classified:	None
Signal Word:	DANGER
Symbol(s):	

Hazard Statements:	H225 Highly flammable liquid and vapor H319 Causes serious eye irritation
Precautionary Statements:	<p>Prevention:</p> <p>P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.</p> <p>P233: Keep container tightly closed.</p> <p>P240: Ground/bond container and receiving equipment</p> <p>P241: Use explosion-proof electrical/ventilating/lighting equipment</p> <p>P242: Use only non-sparking tools.</p> <p>P280: Wear protective gloves/protective clothing/eye protection/face protection</p> <p>Response:</p> <p>P303+361+353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower</p> <p>P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing</p> <p>P337+313: If eye irritation persists get medical advice/attention.</p> <p>P370+378: In case of fire: Use CO2 or chemical foam to extinguish</p> <p>Storage:</p> <p>P403+235: Store in a well ventilated place. Keep cool.</p> <p>Disposal:</p> <p>P501: Dispose of contents/container to an approved waste disposal facility.</p>

3. Composition:

CAS number:	Component:	Percent:
77-06-5	Gibberellic acid (GA ₃)	4%
67-63-0	Isopropanol	96%
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
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	ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or doctor for further treatment advice.			
Eyes:	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.			
Skin:	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. Take container, label or product name and Pest Control Product Registration Number with you when seeking medical attention.			
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: Unknown Delayed: Unknown			
Indication of immediate medical attention and special treatment needed, if necessary:	No available information			
5. Fire Fighting Measures:				
Extinguishing Media:	Suitable: Use CO ₂ or chemical foam to extinguish. Unsuitable: Do not use high pressure water streams.			
Specific Hazards Arising from the Chemical:	Combustion products include carbon compounds. Keep away from sources of ignition			
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:	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep only in original container. Wear protective gloves/protective clothing/eye protection/face protection. In case of fire: Use CO ₂ or chemical foam to extinguish. Store in a well ventilated place. Keep cool. Refer to Section 8 "Exposure Controls/Personal Protection"			
Methods for Containment and Clean-Up:	In case of leak or spill, use absorbent materials to contain liquids and dispose as waste. See also Section 13. Disposal Considerations.			
7. Handling and Storage:				
Precautions for Safe Handling:	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep only in original container. Wear protective gloves/protective clothing/eye protection/face protection. Users should wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. 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 only in original container. Store in a well ventilated place. Keep cool. See also Section 10. Stability and Reactivity.			
8. Exposure Controls/Personal Protection:				
Component Exposure Limits:				
Substance	Canada Ontario	Canada Quebec	Canada	ACGIH TLV

					Saskatchewan		
	ppm STEL	ppm TWA	ppm STEV	Mg/m3 TWA EV	ppm STEL	ppm TWA	8-hr TWA (ST) STEL (C) Ceiling
67-63-0	400	200	500	400	400	200	200 400 (ST)
Appropriate Engineering Controls:		No applicable information available.					
Personal Protective Equipment:		Eyes/Face: Protective eyewear. Skin: Coveralls worn over short-sleeved shirt and long pants. Shoes plus socks. Chemical resistant gloves such as barrier laminate, butyl rubber, nitrile rubber, neoprene rubber, polyvinyl or viton. Respiratory: No applicable information available					
9. Physical and Chemical Properties:							
Appearance:		Clear faintly straw colored liquid					
Odor:		Alcoholic					
Odor Threshold:		No data available.					
pH:		3-4					
Melting Point/Freezing Point:		No data available					
Boiling Point:		180°F (82°C)					
Flash Point:		55.4°F (13°C) (closed cup)					
Evaporation Rate:		No data available					
Flammability/Limits:		Flammable LFL: UFL:					
Vapor Pressure:		No data available					
Vapor Density:		No data available					
Relative Density:		0.803 g/ml					
Solubility (H ₂ O):		Soluble at all concentrations					
Partition Coefficient:		No data available					
Auto-Ignition Temperature:		824°F (440°C)					
Decomposition Temperature:		No data available					
Viscosity:		3.4503 cSt at 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 (40-70°F/4.4°C-21°C)					
Possibility of Hazardous Reactions:		No applicable information available.					
Conditions to Avoid:		Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.					
Incompatible Materials:		Strong oxidizing agents.					
Hazardous Decomposition Products:		None under normal conditions of storage and use.					
11. Toxicological Information:							
Likely Routes of Exposure:		Eye contact, skin contact					
Symptoms:		Inhalation: Studies have revealed no observable abnormalities Eye: Highly irritating Skin: Slightly irritating Ingestion: No data available					
Acute Toxicity:		Oral: LD ₅₀ Rat > 5,050 mg/kg (EPA category IV) Inhalation: LC ₅₀ Rat > 5.23 mg/l (EPA category IV) Dermal: LD ₅₀ Rabbit > 2,020 mg/kg (EPA category III)					
Skin Corrosion/Irritation:		Slight irritation (EPA category IV)					
Serious Eye Damage/Eye Irritation:		Significant reversible eye irritant (EPA Category II)					
Sensitization:		Non-sensitizing (guinea pig)					

Germ Cell Mutagenicity:	None (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	72 hr	EC50 >100 mg ai/l NOEC ≥ 100 mg/l
	Daphnia	72 hr	EC50 >100 mg ai/l NOEC ≥ 100 mg/l
	Algae	72 hr	EC50 >100 mg ai/l NOEC ≥ 100 mg/l
	Bird <i>Colinus virginianus</i>		LD50 >2,250 mg/kg
	Bee	48 hr	LD50 >200 µg
Persistence and Degradability:	Active ingredient is non-toxic and 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:</p> <ol style="list-style-type: none"> 1. Triple-or pressure-rinse the empty container. Add the rinsings to the spray mixture in the tank. 2. Make the empty, rinsed container unsuitable for further use. <p>If there is no container collection site in your area, dispose of the container in accordance with provincial requirements.</p>
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14. Transport Information:

UN/TDG Proper Shipping Name:	Flammable liquid n.o.s. (contains isopropanol)
Hazard Class:	3
UN/TDG Number:	UN1993
Packing Group:	II
Marine Pollutant:	No
NMFC Number:	43940.2/85

15. Regulatory Information:

DSL/NDSL:	77-06-5 and 67-63-0 DSL listed
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:	WARNING – EYE IRRITANT
Precautionary Statements:	KEEP OUT OF REACH OF CHILDREN.

	Causes eye irritation. DO NOT get in eyes. Wash hands after using product. Wear long pants, a long-sleeved shirt, shoes plus socks and eye protection during mixing/loading, application, clean-up and repair activities. In addition, wear chemical-resistant gloves during mixing/loading, clean-up and repair activities. Do not re-enter or allow re-entry into treated areas until 12 hours after application.
Pictograms/Symbols:	
16. Other Information:	
None	
Issue Date/Version:	5/19/17 version 5
Supersedes:	6/24/16 version 4