


SAFETY DATA SHEET

1. Identification:		
Product Identifier:	Florgib® 4L	
Other Means of Identification:	EPA registration number 62097-10-82917	
Distributed by:	Fine Americas, Inc. 1850 Mt. Diablo Blvd., Suite 405, Walnut Creek, CA 94596, USA Tel: 925-932-8800	
Emergency Phone Number:	Chemtrec 1-800-424-9300 (24 hours)	
Recommended Use:	Plant growth regulator solution	
Restrictions on Use:	Keep out of reach of children	
2. Hazard(s) Identification (This product is classified as hazardous as defined by OSHA Hazard Communication Standard, 29 CFR 1910.1200):		
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>P243: Take precautionary measures against static discharge</p> <p>P264: Wash hands thoroughly after handling</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:		
This product contains the following components classified as hazardous under 29 CFR 1910.1200		
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 29 CFR 1910.1200.		

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:	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 center 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 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: 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.
Other Information:	US Regulations may require reporting of spills of hazardous materials. See Section. 15 Regulatory Information for details on reportable quantities, if any.
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	OSHA PEL		Cal/OSHA PEL	NIOSH REL	ACGIH TLV
	ppm	Mg/m3	8-hr TWA (ST) STEL (C) Ceiling	Up to 10 hr TW (ST) STEL (C) Ceiling A	8-hr TWA (ST) STEL (C) Ceiling
Isopropanol	400	980	400ppm (ST) 500ppm	400ppm (ST) 500ppm	200ppm (ST) 400ppm
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 (H₂O):	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)
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	EC ₅₀ >100 mg ai/l NOEC ≥ 100 mg/l
	Algae	72 hr	EC ₅₀ >100 mg ai/l NOEC ≥ 100 mg/l
	Bird <i>Colinus virginianus</i>		LD50 >2,250 mg/kg
	Bee	48 hr	LD50 >200µg
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:	Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility. Non-refillable container. Do not reuse or refill this container. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.
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14. Transport Information:

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

15. Regulatory Information:

SARA: isopropanol reportable under sect. 313							
CERCLA:	No components reportable						
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						
Component Analysis – State: The following components appear on one or more of the following state hazardous substances lists:							
Component	CAS	CA	MA	MN	NJ	PA	RI
Isopropanol	67-63-0	✓	-	✓	✓	✓	✓
California Prop 65:	No component listed						

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 Version: 8

This chemical is a pesticide product registered by the Environmental Protection 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.

EPA signal word: WARNING

Classifications under 40 CFR 156.63 are given in sections 9 and 11 where applicable

Precautionary Statements: **HAZARDS TO HUMANS AND DOMESTIC ANIMALS**
WARNING. Causes substantial but temporary eye injury. Do not get in eyes, on skin, or on clothing. Harmful if absorbed through skin, inhaled, or swallowed. Avoid breathing spray mist. Wear goggles or safety glasses. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove and wash contaminated clothing before re-use.

Pictograms/Symbols: None

16. Other Information:

Fine Agrochemicals Limited ("FINE") warrants that this Product conforms to the specifications on this label. To the extent consistent with applicable law, FINE makes no other warranties and disclaims all other warranties, express or implied, including but not limited to warranties of merchantability and fitness for a particular purpose. No agent of FINE or any other person is authorized to make any representation or warranty beyond those contained herein.

It is impossible to eliminate all risks associated with this Product. Plant injury, lack of performance, or other unintended consequences may result because of factors such as abnormal weather conditions, use of the Product other than in strict accordance with this label's instructions, presence of other materials, the manner of application or other factors, all of which are beyond the control of FINE or the seller. To the extent consistent with applicable law, all such risks shall be assumed by the Buyer.

To the extent consistent with applicable law: 1) FINE disclaims any liability whatsoever for special, incidental or consequential damages resulting from the handling or use of this Product and 2) FINE's liability under this label shall be limited to the amount of the purchase price or, at the election of FINE, the free replacement of the Product.

Issue Date/Version: 10/18/16 version 8

Supersedes: 10/19/15 version 7