

MATERIAL SAFETY DATA SHEET

24 HOUR EMERGENCY TELEPHONE CHEMTREC 1-800-424-9300

1. Identification:

Product identifier:	Florgib [®] 4L
Recommended use:	Plant growth regulator solution
EPA Reg. No.:	62097-10-82917
Distributed by:	Fine Americas, Inc. 1850 Mt. Diablo Blvd., Suite 405, Walnut Creek, CA 94596, USA Tel: 925-932-8800

2. Hazard(s) identification:

EPA classification:	II
EPA signal word/precautionary statement:	WARNING. KEEP OUT OF REACH OF CHILDREN. FLAMMABLE. Keep away from heat and open flame.
HAZARDS TO HUMANS AND DOMESTIC ANIMALS. WARNING. Causes substantial but temporary eye injury. Harmful if absorbed through the skin. Do not get in eyes, on skin, or on clothing. Wear goggles or safety glasses. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, or using tobacco. Remove contaminated clothing and wash before re-use.	

3. Composition:

Chemical name and concentration:	Soluble concentrate containing 4% w/w gibberellic acid pure (GA ₃)
CAS No.:	77-06-5 (active ingredient)

4. First aid measures:

If in 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.
If on skin or clothing:	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.

5. Fire fighting measures:

Extinguishing media:	Use water mist, fog, CO ₂ , foam and/or dry powder
Specific hazards:	Flammable liquid and vapor. Products of combustion: Carbon compounds.
Protective equipment:	Wear full protective clothing and self-contained breathing apparatus.

6. Accidental release measures:

Personal precautions:	See Section 8 "Exposure controls/personal protection". Keep away from sources of ignition.
Methods for cleaning up:	In case of spillage, use inert absorbent materials. Isolate spilled material for safe disposal and collect in sealable poly-lined containers. Ventilate area. Dispose of contaminated material in accordance with local regulations. Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

7. Handling and storage:

Precautions for safe handling:	Users should wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment wash waters.
Conditions for safe storage:	Keep containers tightly closed when not in use.

8. Exposure controls/personal protection:

Exposure limit:	No applicable information available.
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Engineering controls:	No applicable information available.
Applicators and other handlers must wear:	<p>Applicators and other handlers must wear:</p> <ul style="list-style-type: none"> • Long pants • Long sleeved shirt • Shoes plus socks • Protective eyewear • Chemical resistant gloves such as barrier laminate, butyl rubber, nitrile rubber, neoprene rubber, polyvinyl chloride or viton. <p>Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE items separately from other laundry.</p>

9. Physical and chemical properties:

Appearance:	Clear faintly straw colored liquid
Odor:	Alcoholic
Odor threshold:	No applicable information available.
pH (50% v/v solution) in water:	3-4
Melting point/freezing point:	No applicable information available.
Boiling point:	82°C
Flash point:	13°C (closed cup)
Evaporation rate:	No applicable information available.
Flammability:	Flammable
Explosive limits:	<p>Lower explosive limit in air: 2.5% (solvent) Upper explosive limit in air: 12.7% (solvent) Formulated product shows no evidence of possessing explosive properties</p>
Vapor pressure:	4.4 kPa
Vapor density:	No applicable information available.
Relative density:	0.803 g/ml
Solubilities:	
Water solubility @20°C:	Soluble at all concentrations
Fat solubility:	No applicable information available.
Partition coefficient:	No applicable information available.
Auto-ignition temperature:	No applicable information available.
Decomposition temperature:	No applicable information available.
Viscosity:	3.4503 mm ² /s

10. Stability and reactivity:

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 and direct sunlight. Keep away from sources of ignition.
Incompatible materials:	Incompatible with strong oxidizing agents.
Hazardous decomposition products:	None under normal conditions of storage and use.

11. Toxicological information:

Routes of exposure/acute toxicity	
Oral:	LD ₅₀ Rat: >5050 mg/kg
Inhalation:	LC ₅₀ Rat >5.23 mg/l
Dermal:	LD ₅₀ Rabbit: >2020 mg/kg
Irritation	
Eye:	Highly irritant (Category II)
Skin:	Slight (Category IV)
Respiratory tract:	Studies have revealed no observable abnormalities
Sensitization	

Skin:	Non-sensitizing
Carcinogenicity:	None (active ingredient)
Mutagenicity:	None (active ingredient)
Reproductive Toxicity:	No applicable information available.
Chronic Toxicity:	No applicable information available.
NTP/IARC/OSHA listing(s):	No applicable information available.

12. Ecological information:

Ecotoxicity:	<ul style="list-style-type: none"> • Fish: EC₅₀ (72h)>100 mg ai/l; NOEC≥100 mg/l • Daphnia: EC₅₀ (72h)>100 mg ai/l; NOEC≥100 mg/l • Algae: EC₅₀ (72h)>100 mg ai/l; NOEC≥100 mg/l • Lemna: EC₅₀ (72h)>100 mg ai/l; NOEC≥100 mg/l • Bird: LD₅₀ > 2250 mg/kg <i>Colinus virginianus</i>(active ingredient) • Beneficials: EC₅₀ (72h)>100 mg ai/l; NOEC≥100 mg/l • Bee: LD₅₀ (contact and oral 48h)>200µg/bee
Mobility:	No applicable information available.
Persistence and degradability:	Active ingredient is non-toxic and degrades rapidly under biological conditions.
Bioaccumulation potential:	No applicable information available.

13. Disposal considerations:

Pesticide disposal:
 Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

Container disposal:
 Nonrefillable 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.

14. Transport information:

UN number:	1993
NMFC number:	43940.2
Class:	085
Proper shipping name:	Flammable liquid n.o.s. (contains isopropanol)
Packaging group:	II
Marine Pollutant:	No

15. Regulatory information:

Chemical name:	Gibberellic acid
FIFRA hazards statement:	Refer to Section 2 "Hazard(s) Identification"
Signal word:	Warning.
Symbol:	None

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.

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