

MATERIAL SAFETY DATA SHEET

IN CASE OF EMERGENCY CALL CHEMTREC 1-800-424-9300
OR NATIONAL PESTICIDE INFORMATION CENTER (NPIC) 1-800-858-7378

1. Identification of the substance/preparation and company/undertaking:

Product name: Falgro® 4L
Use of product: Horticultural plant growth regulator for professional use
Supplier: Fine Americas, Inc.
1850 Mt. Diablo Blvd., Suite 405, Walnut Creek, CA 94596, USA
Tel: 925-932-8800

2. Composition/information on ingredients:

Product: A soluble concentrate containing 4% w/w gibberellic acid pure (GA₃)
CAS No: 77-06-5 (active ingredient)
EPA Reg. No: 62097-2-82917

3. Hazards identification:

KEEP OUT OF REACH OF CHILDREN

Toxicity Category: II (EPA)
EPA Signal Word: Warning. Flammable – Keep away from heat and open flame.

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.

4. First aid measures:

After inhalation: Remove the person to a well ventilated area. Ensure the person is warm and comfortable. Call a poison control centre or doctor for treatment advice.

After skin contact: 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.

After eye contact: 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.

After swallowing: Call a poison control centre 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 centre or doctor. Do not give anything by mouth to an unconscious person

5. Fire fighting measures:

Flammability:	Highly flammable
Flash point:	16.5°C (closed cup)
Extinguishing media:	Use water mist, fog, CO ₂ , foam and/or dry powder
Special exposure hazards:	Flammable liquid and vapor
Fire fighting equipment:	Wear full protective clothing and self-contained breathing apparatus.
Products of combustion:	Carbon compounds

6. Accidental release measures:

Personal precautions:	Wear protective clothing, see Section 8 “Exposure control/personal protection”. Keep away from sources of ignition.
Environmental precautions:	For terrestrial uses. 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 or rinsate.
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.

7. Handling and storage:

Handling:	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.
Storage:	Do not contaminate water, food or feed by storage or disposal. Store in dry, cool (below 32°C) conditions in original container. Use flammable liquid storage area. Keep containers tightly closed when not in use.

8. Exposure controls/personal protection:

Applicators and other handlers must wear;

- Protective eyewear
 - Coveralls worn over short sleeved shirt and short pants
 - Socks and shoes
- Chemical resistant gloves such as barrier laminate, butyl rubber, nitrile rubber, neoprene rubber, polyvinyl chloride or viton.

For washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

9. Physical and chemical properties:

General information:

- Appearance: Clear faintly straw colored liquid
- Odor: Alcoholic

Important health, safety and environmental information:

- pH (50% v/v solution) in water: 3 - 4
- Boiling point: 82°C
- Flash point: 16.5°C (closed cup)
- Flammability: Highly flammable
- Explosive properties: Lower explosive limit in air: 2.5% (solvent)
Upper explosive limit in air: 12.7% (solvent)
- Oxidizing properties: Reacts with strong oxidizing agents
- Vapor pressure: 4.4 kPa
- Relative density: 0.8003 g/ml
- Solubility
 - water solubility @ 20°C: Soluble at all concentrations
 - fat solubility: No data
- Partition coefficient: No data
- Viscosity: 3.4503 mm²/s

10. Stability and reactivity:

Stable in original containers for at least 2 years at ambient temperatures.

Conditions to avoid: Excessive heat and direct sunlight. Keep away from sources of ignition.

Materials to avoid: Incompatible with strong oxidizing agents.

Hazardous decomposition products: None under normal conditions of storage and use.

11. Toxicological information:

Acute toxicity:

- Oral: LD₅₀ Rat: >5050 mg/kg
- Inhalation: LC₅₀ Rat >5.23 mg/l
- Dermal: LD₅₀ 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

Chronic toxicity:

Carcinogenicity: No studies available
 Mutagenicity: None (active ingredient)
 Reproductive toxicity: No studies available
 Toxicity Class: WHO (a.i.) U; EPA III (active ingredient)

12. Ecological information:

Ecotoxicity	
• Fish:	Not toxic but avoid contamination of water courses. LC ₅₀ (96h)>112mg/L <i>Oncorhynchus mykiss</i> (active ingredient)
• Daphnia:	Not toxic but avoid contamination of water courses. EC ₅₀ (48h)>122mg/L <i>Daphnia Magna</i> (active ingredient)
• Algae:	LC ₅₀ (72h)>100 mg/l; NOEC≥100 mg/l (active ingredient)
• Bird:	LD ₅₀ > 2250 mg/kg <i>Colinus virginianus</i> (active ingredient)
• Bee:	LC ₅₀ (contact 48h)>25µg/bee <i>Apis mellifera</i> (active ingredient)
Persistence and degradability:	Active ingredient is non-toxic and degrades rapidly under biological conditions.

13. Disposal considerations:

Product disposal:	Do not contaminate water, food or feed by storage or disposal. Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility
Packaging 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 NOS – HAZMAT (contains isopropanol)
Packaging group:	II
Marine Pollutant:	No
Other applicable information:	IATA Class III / ADR Class III

15. Regulatory information:

Chemical Name	SARA 313	SARA 302	CERCLA Reportable Quantity (RQ)	California Proposition 65
Gibberellic Acid	Not Listed	Not Listed	None	Not Applicable

16. Other information:

For further information on the product and product use refer to the product label.

This version supersedes previous version (102709). 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.