

MATERIAL SAFETY DATA SHEET

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

Preparation name: FALGRO 4L

Use of preparation: Horticultural plant growth regulator for professional use

Supplier: Fine Agrochemicals Ltd, Hill End House, Whittington
Worcester, WR5 2RQ, Tel: +44 01905 361800

2. Composition/Information On Ingredients:

Product: A solution of 4% gibberellic acid

Cas No: 77-06-5
Einecs No: 201-001-0

Hazardous Ingredients: Solvent **Classification:** Xi, F, R11 R36 R67 **Concentration:** 96% by weight

3. Hazards identification

Highly Flammable
Irritating to eyes
Vapours may cause drowsiness & dizziness

4. First aid measures

After inhalation: Remove the person to a well ventilated area. Ensure the person is warm and comfortable. Obtain immediate medical attention.

After skin contact: Remove contaminated clothing. Wash the affected area thoroughly with soap and water. Obtain medical attention if irritation occurs.

After eye contact: Irrigate eyes with running water for at least 15 minutes.



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4. First aid measures (cont'd.)

After swallowing: Do not induce vomiting or give liquids. Seek medical advice.

5. Fire fighting measures

Flammability:	Highly Flammable
Flash Point:	14°C (PM Closed cup)
Extinguishing Media:	Use water mist, fog, CO ₂ , foam and/or dry powder
Special exposure hazards:	Flammable liquid and vapour
Fire Fighting Equipment:	Wear full protective clothing and self-contained breathing apparatus.
Products of combustion and decomposition:	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

Prevent product or contaminated water entering drains.

Methods for cleaning up.

In case of spillage, use inert absorbent materials. Isolate spilled material for safe disposal and collect in sealable polylined containers. Ventilate area. Dispose of contaminated material in accordance with local regulations.

7. Handling and storage**Handling**

Protect against physical damage and store in cool, dry well-ventilated location, away from sources of ignition. Keep away from drink and foodstuffs.



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7. Handling and storage (cont'd.)

Do not smoke in the workplace. Avoid contact with spray. Wash thoroughly after handling.

Storage

Store in dry, cool (below 32°C) conditions in original container. Use flammable liquid storage area.

8. Exposure controls/personal protection**Exposure controls**

To avoid risks to man and the environment comply with instructions for use

Occupational exposure controls**- Respiratory protection**

Avoid inhaling vapour, work in a well ventilated area

- Hand protection

Chemical resistant gloves such as barrier laminate, butyl rubber, nitrile rubber, neoprene rubber, polyvinyl chloride or vinyl should be worn. Refer to product label for more information.

- Eye protection

Glasses/goggles should be worn or face mask used

- Skin protection :

Wear sensible regularly laundered overalls. Gloves and boots should be worn.

9. Physical and chemical properties:**General information**

Appearance: Clear faintly straw coloured liquid

Odour: Alcoholic

Important health, safety and environmental information

pH (50% v/v solution) in water: 3.28

Boiling point: 82°C

Flash point: 14°C (PM Closed cup)



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9. Physical and chemical properties (cont'd.)

Flammability:	Highly Flammable
Explosive properties:	Lower Explosive Limit in air: 2.5% Upper Explosive Limit in air: 12.7%
Oxidising properties:	Reacts with strong oxidising agents
Vapour pressure @ 20°C:	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 mm ² /s
Vapour density (air =1):	2.1
Evaporation rate (BuAc=1):	2.83
Other information	
Auto ignition	445.6°C

10. Stability and reactivity

Stable in original containers for at least 3 years at ambient temperatures.

Conditions to avoid

- Excessive heat and direct sunlight. Keep away from sources of ignition.

Materials to avoid

- Incompatible with strong oxidising agents.

Hazardous decomposition products

- None under normal conditions of storage and use.

11. Toxicological information

Acute toxicity

Oral:	LD ₅₀ Rat: >5050 mg/kg
Inhalation:	LC ₅₀ Rat >5.23 mg/l
Dermal:	LD ₅₀ Rabbit: >2020 mg/kg



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11. Toxicological information (cont'd.)

Irritation

Eye: Highly eye irritant

Skin: Slight

Respiratory tract: Studies have revealed no observable abnormalities.

Corrosivity: Non-corrosive

Sensitisation

Skin: Non-sensitising

Chronic toxicity: No studies available

Carcinogenicity: None (active ingredient)

Mutagenicity: None (active ingredient).

Reproductive tox: No studies available

Note: Gibberellic acid is a plant growth hormone that has been reported to have estrogenic and androgenic activity in animals.

Toxicity Class: WHO (a.i.) U; EPA III (active ingredient)

12. Ecological information

Ecotoxicity

Fish: Not toxic but avoid contamination of water courses. LC₅₀ (96h)>112mg/L *Oncorhynchus mykiss* (active ingredient).Daphnia: Not toxic but avoid contamination of water courses. EC₅₀ (48h)>122mg/L *Daphnia Magna* (active ingredient).Algae: LC₅₀ (72h)>100 mg/l; NOEC≥100 mg/lBird: LD₅₀ > 2250 mg/kg *Colinus virginianus* (active ingredient)Bee: LC₅₀ (contact 48h)>25µg/bee *Apis mellifera* (active ingredient).

Persistence and degradability.

Active ingredient is non-toxic and degrades rapidly under biological conditions.

13. Disposal considerations

Product: May be taken to waste disposal site or incineration plant when in compliance with local regulations refer to the local waste regulation authority.

Packaging: Empty containers can be landfilled when in accordance with local regulation.

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14. Transport information

UN number:	1993
Class	3.2
Packaging group	II
Marine Pollutant	No
Other applicable information	IATA Class III / ADR Class III

15. Regulatory Information

Symbol(s):	Xi F	Irritant Highly Flammable
Risk Phrases:	R11 R-36 R-67	Highly flammable Irritating to eyes Vapours may cause drowsiness & dizziness
Safety Phrases:	S2 S7 S13 S16 S20 S24/25 S26 S36/37/39 S51	Keep out of reach of children Keep container tightly closed Keep away from food, drink and animal feed stuffs Keep away from source of ignition – No smoking When using do not eat or drink Avoid contact with skin & eyes In case of contact with eyes, rinse immediately with Plenty of water and seek medical advice Wear suitable protective clothing, gloves and eye/face protection Use only in well ventilated areas.
Specific provisions		Restricted to professional users To avoid risks to man and the environment, comply with the directions for use.

16. Other information:

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

This version replaces all previous versions



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