

# FALGRO 4 SL

# SAFETY DATA SHEET

## 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**Product Name:** FALGRO 4 SL

**Recommended use:** Plant Growth Regulator  
**Other identifier:** Gibberellic acid 40 g/l  
**Restrictions on use:** Agriculture

**Supplier:** Universal Crop Protection (Pty) Ltd.  
**Co. Reg. No.:** 1983/008184/07  
 PO Box 801,  
 Kempton Park, 1620, South Africa

**Telephone:** (011) 396 2233  
**Fax:** (011) 396 4666  
**Website:** [www.villacrop.co.za](http://www.villacrop.co.za)

**Emergency telephone numbers:**  
**24 Hr Transport / Spill emergency no:**  
 (Hazcall24) +27 86 044 4411  
 (Client: Villa Crop Protection)  
 Griffon Poison Information Centre +27 82 446 8946  
 (Client: Villa Crop Protection)  
**Poisoning Emergency telephone numbers:**  
 Griffon Poison Information Centre +27 82 446 8946  
 Poisons Information Centre +27 861 555 777

## 2. HAZARDS IDENTIFICATION

UN GHS, Regulation EC 1272/2008 [EU-GHS/CLP] EU & SANS 10234:2008			
Hazard classes		Hazard categories	H-statements
<b>Physical</b>			
Flammable Liquid		Flam liq. 2	H225
<b>Health</b>			
Eye		Eye Dam. 2	H319
Specific Target Organ Single Exposure		STOT SE 3	H336

**The most important adverse effects:**  
**Physiochemical effects:**  
 Highly flammable liquid and vapour.  
**Human health effects:**  
 Causes serious eye irritation.  
 May cause drowsiness or dizziness.

### Label elements:



**Signal word:** Warning

### Hazard statements:

**H225:** Highly flammable liquid and vapour.  
**H319:** Causes serious eye irritation.  
**H336:** May cause drowsiness or dizziness.

### Precautionary statements:

**P210:** Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
**P243:** Take action to prevent static discharges.  
**P261:** Avoid breathing mist, vapours and spray.  
**P264+P265:** Wash hands and face thoroughly after handling. Do not touch eyes.  
**P271:** Use only outdoors in a well-ventilated area.  
**P280:** Wear impervious rubber gloves and boots, protective clothing and chemical safety goggles.  
**P303+P361+P353:** IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse affected areas with water [or shower].  
**P304+P340:** IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
**P305+P351+P338:** IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
**P319:** Get medical help if you feel unwell.  
**P337+P317:** If eye irritation persists: Get medical help.  
**P370+P378:** In case of fire: Use carbon dioxide, dry powder, water mist, fog or foam to extinguish.  
**P403+P233+P235:** Store in a well-ventilated place. Keep tightly closed and cool.  
**P405:** Store locked up.  
**P501:** Dispose of content/container to suitable landfill in accordance with local regulations.

### Special labelling of certain mixtures:

None known.

### Other hazards:

None known.

### Toxicity:

Classification according to GHS: Unclassified.  
 Classification according to WHO: Category II.

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

**Substance/Mixture:** Mixture

### Composition:

Chemical Name	CAS	Conc. (m/v %)	Classification EC 1272/2008
Gibberellic acid	77-06-5	4 %	-
Isopropanol	67-63-0	> 90 %	Flam. Liq. 2 (H225) Eye Irrit. 2 (H319) STOT SE 3 (H336)

## 4. FIRST AID MEASURES

In the event of any complaints or symptoms, avoid further exposure and consult a doctor.

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**Inhalation:** Remove person from contaminated area to fresh air and assist breathing as needed. Seek medical attention if irritation persists.

**Skin:** Remove contaminated clothing and wash before re-using. Flush skin with water. Seek medical attention if skin irritation persists.

**Eyes:** Flush eyes with clean water for 15 minutes. Lift eyelids to facilitate irrigation. If present, remove contact lenses and continue rinsing for another 5 minutes. Seek medical attention if irritation persists.

**Ingestion:** Do not give liquids or induce vomiting. Seek medical advice.

**Anticipated acute effects:** Causes serious eye irritation. May cause drowsiness or dizziness.

**Anticipated delayed effects:** None known.

**Most important symptoms/effects:** Causes serious eye irritation.

**Advice to physician:** Treat symptomatically and supportively.

### 5. FIRE-FIGHTING MEASURES

**Suitable Extinguishing Media:** Use carbon dioxide, dry powder, water mist, fog or foam.

**Unsuitable Extinguishing Media:** Water jet.

**Specific hazards:** Flammable liquid and vapour. Products of combustion – carbon compounds.

**Special Fire Fighting Procedures:** Remove spectators from surrounding area. Isolate the fire area and evacuate all personnel downwind of the fire. Fight fire from maximum distance and use unmanned hose holder or monitor nozzles. Keep upwind. Avoid inhaling hazardous vapours and fumes from burning materials. Remove container from fire area if possible and without risk. Do not use high volume water jet, due to contamination risk. Do not scatter the burning material. Water can be used to cool unaffected containers but must be contained for later disposal. Avoid pollution of waterways by run-off from the site.

**Personal protective equipment:** Wear NIOSH/MSHA approved self-contained breathing apparatus and full protective gear.

### 6. ACCIDENTAL RELEASE MEASURES

**Personal Precautions:** Use with caution. Follow label instructions. Keep away from sources of ignition.

**Protective equipment:** Refer to Section 8 for personal protective equipment to be worn during containment and clean-up of a spill involving this product.

**Environmental Precautions:** Keep spilled product from entering sewers, waterways or ground water.

**Methods and Materials for Containment:** Contain spilled product by diking area with sand or earth.

**Methods and Materials for Clean-up:** Cover contained spill with an inert absorbent material such as sand, vermiculite, earth or other appropriate material. Vacuum, scoop, or sweep up material and place the material into a

clean, dry, sealable container. Label containers with the contents and dispose of according to local regulations. Do not place spilled material back in original container. Do not re-use spilled material. Collect washings and add to the drums already collected. Do not flush spilled material or washings into drains or waterways. To decontaminate the spill area, tools and equipment, wash with water and suitable detergent. See section 13 for disposal considerations.

### 7. HANDLING AND STORAGE

**Handling:**

**Precautions for safe handling:** Avoid contact with eyes. Immediately clean up spills that occur during handling. Keep containers closed when not in use. In the case of contact with the product refer to First Aid Measures – Section 4.

**General occupational hygiene:** Practice good hygiene when using this material. Wash hands before eating, drinking, chewing gum, smoking, using the toilet or applying cosmetics. Worker should shower at the end of each workday. Launder all clothing before it is re-used again.

**Storage:**

**Conditions for safe storage:** Store in its original container in dry, cool, well-ventilated area. Do not store near heat, open flame, sources of ignition or hot surfaces. Not to be stored next to foodstuffs, feed and water supplies. Keep out of reach of children, uninformed persons and animals. Do not contaminate other pesticides and fertilizers.

**Incompatible substances and mixtures:** Reacts with strong oxidising agents.

**Packaging material:** Fluorinated plastic containers.

### 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

**Permissible concentration:**

Components	Exposure limits	Type of exposure limit	Source
Isopropanol	400 ppm	8-hour TWA	OSHA PEL

**Engineering Controls:** It is essential to provide adequate ventilation. The measures appropriate for a particular worksite depend on how this material is used and on the extent of exposure. Local Exhaust: Provide general or local exhaust ventilation systems to maintain airborne concentrations below OSHA PELs or other specified exposure limits. Local exhaust ventilation is preferred. Ensure that control systems are properly designed and maintained. Comply with occupational safety, environmental, fire, and other applicable regulations.

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### Personal Protective Equipment:

**Respiratory Protection:** Avoid inhaling vapour. No respiratory protection should be needed, if work is conducted in a well ventilated area.

**Hand Protection:** Employee must wear appropriate impervious chemically resistant gloves e.g. barrier laminate, butyl rubber, nitrile rubber, neoprene rubber, polyvinyl chloride or vinyl gloves to prevent contact with this mixture.

**Eye Protection:** Wear a face shield when handling the concentrate and when applying the product. The use of safety goggles is recommended if a face shield is not used.

**Skin and Body Protection:** The use of protective (impervious) clothing e.g. coveralls is recommended to prevent skin contact with this mixture.

**Emergency eyewash:** Where there is any possibility that an employee's eyes may be exposed to this substance; the employer should provide an eye wash fountain or appropriate alternative within the immediate work area for emergency use.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance:** Clear faintly straw coloured liquid.

**Odour:** Alcohol odour.

**pH (1% aqueous dilution):** 3.28.

**Melting point:** Not available.

**Freezing Point:** Not available.

**Boiling Point:** 82°C

**Flash Point:** 14°C (PM Closed cup)

**Flammability:** Highly flammable.

**Upper/lower explosion limits:** Lower Explosive Limit in air: 2.5%

Upper Explosive Limit in air: 12.7%

**Vapour Pressure (mm Hg):** Not available.

**Relative Vapour Density:** Not available.

**Relative density:** 0.8003 g/ml

**Solubility:** Soluble in water at all concentrations.

**n-octanol/water partition coefficient:** Not available.

**Auto-ignition temperature:** 445.6°C

**Decomposition temperature:** Not available.

**Viscosity:** 3.4503 mm<sup>2</sup>/s

### 10. STABILITY AND REACTIVITY

**Chemical Stability:** The product is stable for three years at ambient temperature and pressure, under normal storage and handling conditions. Avoid storage under extreme temperatures and conditions. Store below 50 °C, preferably below 30 °C, and not for prolonged periods in direct sunlight.

**Reactivity:** None known.

**Possibility of Hazardous Reactions:** Highly flammable liquid and vapour.

**Conditions to Avoid:** Extreme heat or exposure to flames.

**Incompatible Materials:** Strong oxidizers.

**Hazardous Decomposition Products:** Decomposition products may include carbon compounds.

### 11. TOXICOLOGICAL INFORMATION

#### ACUTE TOXICITY:

**Oral LD<sub>50</sub>** >5801 mg/kg

**Dermal LD<sub>50</sub>** >11227 mg/kg (rabbit)

**Inhalation LC<sub>50</sub> (4h)** > 17123 mg/ℓ (rat)

**Skin Irritation/Corrosion:** Not classified.

**Eye Irritation:** Causes serious eye irritation.

**Skin Sensitization:** Not classified.

**Respiratory Sensitization:** Not classified.

**Reproductive cell mutagenicity:** Not classified.

**Carcinogenicity:** Not classified.

**Reproductive toxicity:** Not classified.

**Specific target organ toxicity – single exposure:** May cause drowsiness or dizziness.

**Specific target organ toxicity – repeated exposure:** Not classified.

**Aspiration hazard:** Not classified.

**Chronic Effects:** None known.

#### POTENTIAL ADVERSE EFFECTS:

**Inhalation:** None known.

**Skin contact:** None known.

**Eye contact:** Causes serious eye irritation.

**Ingestion:** None known.

### 12. ECOLOGICAL INFORMATION

This product is not expected to be harmful to aquatic organisms.

#### ECOTOXICITY DATA: Gibberellic acid

<b>Fish:</b>	Oncorhynchus mykiss	> 112 mg/ℓ
LC <sub>50</sub> (96h)		

<b>Daphnia:</b>	Daphnia Magna	> 122 mg/ℓ
EC <sub>50</sub> (48h)		

<b>Algae:</b>		> 100 mg/ℓ
LC <sub>50</sub> (72h)		

<b>Birds:</b>	Colinus virginianus	> 2250 mg/kg
LD <sub>50</sub>		

<b>Bees:</b>	Apis mellifera	> 25 ug/bee
LC <sub>50</sub> (48h) (Contact)		

#### ENVIRONMENTAL EFFECTS:

**Persistence and degradability:** Rapidly under biological conditions. Active ingredient is non-toxic.

**Bio-accumulative Potential:** Not determined.

**Mobility in soil:** Not determined.

**Other adverse effects:** Not determined.

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## 13: DISPOSAL CONSIDERATIONS

**Waste:** Open dumping or burning of this pesticide is prohibited. Waste resulting from the use of this product cannot be reused or re-processed. Never pour untreated waste or surplus product into public sewers or where there is any danger of run-off or seepage into water systems. Do not contaminate rivers, dams or any other water sources with the product or used containers. Comply with local legislation applying to waste disposal.

**Container:** Do not re-use the empty container for any other purpose. Triple rinse empty containers by inverting the empty container over the spray or mixing tank and allow draining for at least 30 seconds after the flow has slowed down to a drip. Thereafter, rinse the container three times with a volume of water equal to a minimum of one third of that of the container. Add the rinsing's to the contents of the spray tank before recycling or destroying the container in the prescribed manner. Comply with local legislation applying to waste disposal.

## 14: TRANSPORT INFORMATION

**UN Number:** 1993  
**Road Transport ADR/IRD:**  
 Class: 3  
 Packaging group: II  
 UN Proper Shipping Name: Flammable liquids,  
 (Diesel) n.o.s. (**Gibberellic acid 40 g/l**)

**Maritime Transport IMDG/IMO:**  
 Class: 3  
 Packaging group: II  
 UN Proper Shipping Name: Flammable liquids,  
 (Diesel) n.o.s. (**Gibberellic acid 40 g/l**)

**Marine Pollutant (Y/N):** Not a marine pollutant.

**Air Transport IATA/ICAO:**  
 Class: 3  
 Packaging group: II  
 UN Proper Shipping Name: Flammable liquids,  
 (Diesel) n.o.s. (**Gibberellic acid 40 g/l**)

**Special/Environmental Precautions:** Wedge drums tightly to avoid movement.

**Transport in bulk** (according to MARPOL 73/78, Annex II and the IBC code): Not available.

## 15: REGULATORY INFORMATION

**Safety, health and environmental regulations/legislation for the mixture:**  
 OSHA 1993 Regulations for Hazardous Chemical Substances.

**Relevant information regarding restrictions:** None.

**EU regulation:** Regulation EC1272/2008 (EU-GHS/CLP)

**Other national regulations:** None.

**Chemical Safety Assessment carried out?** No

## 16: OTHER INFORMATION

**Packaging:** Packed in 1, 5, 10, 20 & 25 litres fluorinated plastic containers, labelled according to South African regulations and guidelines.

**Disclaimer:** The information on this sheet is not a specification; it does not guarantee specific properties. The information is intended to provide general guidance as to health and safety based upon our knowledge of the handling, storage and use of the product. It is not applicable to unusual or non-standard uses of the product nor where instructions or recommendations are not followed. All information is given in good faith but without guarantee in respect of accuracy, and no responsibility is accepted for errors and omissions or the consequence thereof.

## END OF DOCUMENT

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