

NOVAGIB® 10 SL

SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: NOVAGIB® 10 SL
Recommended use: Plant Growth Regulator
Other identifier: Gibberellins GA4/7 100 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

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

The most important adverse effects:

Physiochemical effects: None known.

Human health effects: None known.

Label elements: No label elements.

Signal word: No signal word.

Hazard statements: No hazard statements.

Precautionary statements: No precautionary statements.

Special labelling of certain mixtures: None known.

Other hazards: None known.

Toxicity:

Classification according to GHS: Unclassified.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Substance/Mixture: Mixture

Composition: No hazardous components within this mixture.

4. FIRST AID MEASURES

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

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

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. Lift eyelids to facilitate irrigation. If present, remove contact lenses and continue rinsing. Seek medical attention if irritation occurs.

Ingestion: Rinse mouth. Seek medical attention if person feels unwell.

Anticipated acute effects: None known.

Anticipated delayed effects: None known.

Most important symptoms/effects: None known.

Advice to physician: Treat symptomatically and supportively.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media: Use carbon dioxide, dry chemical or foam.

Unsuitable Extinguishing Media: Water.

Specific hazards: None known.

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.

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

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suitable detergent. See section 13 for disposal considerations.

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

7. HANDLING AND STORAGE

Handling:

Precautions for safe handling: 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. Avoid excess heat. 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: Refer to product label.

Packaging material: Plastic containers.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Colourless liquid.

Odour: Alcohol odour.

pH (1% aqueous dilution): 4.0 to 6.0.

Melting point: Not available.

Freezing Point: Not available.

Boiling Point: Not available.

Flash Point: Not available.

Flammability: Not flammable.

Upper/lower explosion limits: Non-explosive.

Vapour Pressure (mm Hg): Not available.

Relative Vapour Density: Not available.

Density: 1.04 g/cm³

Solubility: Soluble in water.

n-octanol/water partition coefficient: Not available.

Auto-ignition temperature: Not available.

Decomposition temperature: Not available.

Viscosity: Not available.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Permissible concentration: No occupational exposure limits has been determined for the significant ingredients in this product.

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.

Personal Protective Equipment:

Respiratory Protection: No respiratory protection should be needed.

Hand Protection: This product should not be toxic through skin exposure or cause skin irritation, but chemically protective gloves may be worn as a precautionary measure.

Eye Protection: This product should not affect the eyes, but chemical safety goggles may be worn to protect against eye contact. Contact lenses are not protective eye devices.

Skin and Body Protection: Novagib® 10 SL is not classified to be toxic, however, appropriate protective clothing; boots, hat and equipment to prevent repeated or prolonged skin contact, is recommended when handling chemical substances as a general rule.

10. STABILITY AND REACTIVITY

Chemical Stability: The product is stable for two 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: Will not occur.

Conditions to Avoid: Extreme heat or exposure to flames.

Incompatible Materials: Strong oxidizers.

Hazardous Decomposition Products: Decomposition products may include toxic and irritant fumes.

11. TOXICOLOGICAL INFORMATION

ACUTE TOXICITY:

Calculated according to GHS

Oral LD₅₀ (rat) > 4000 mg/kg.

Dermal LD₅₀ (rat) > 4000 mg/kg.

Inhalation LC₅₀ (4h) (rat) > 5.41 mg/l.

Skin Irritation/Corrosion: None known.

Eye Damage/Irritation: None known.

Skin Sensitization: None known.

Respiratory Sensitization: None known.

Reproductive cell mutagenicity: None known.

Carcinogenicity: None known.

Reproductive toxicity: None known.

Specific target organ toxicity – single exposure: None known.

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Specific target organ toxicity – repeated exposure:
 None known.

Aspiration hazard: None known.

Chronic Effects: None known.

POTENTIAL ADVERSE EFFECTS:

Inhalation: None known.

Skin contact: None known.

Eye contact: None known.

Ingestion: None known.

12: ECOLOGICAL INFORMATION

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

ECOTOXICITY DATA:

Fish:

LC₅₀ (24h) > 100 mg/l

Daphnia:

EC₅₀ (48h) > 100 mg/l

Algae:

EC₅₀ (72h) 60 mg/l

Birds (AI):

LC₅₀ > 2250 mg/kg

Bees (AI):

(Oral) > 87 ug/bee

(Contact) > 100 ug/bee

Earthworm:

> 48 mg/kg dw soil

ENVIRONMENTAL EFFECTS:

Persistence and degradability: Readily biodegradable.

Bio-accumulative Potential: Not determined.

Mobility in soil: Not determined.

Other adverse effects: Not determined.

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 is 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: Not regulated.

Road Transport ADR/IRD:

Class: Not classified.

Packaging group: III

UN Proper Shipping Name: Not classified.

Maritime Transport IMDG/IMO:

Class: Not classified.

Packaging group: III

UN Proper Shipping Name: Not classified.

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

Air Transport IATA/ICAO:

Class: Not classified.

Packaging group: III

UN Proper Shipping Name: Not classified.

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:

OHSA 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, 50, 100 & 200 litres 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

Compiled: February 2017

Reviewed: October 2022

Revision no.: (3)

Next revision date: October 2027

For detailed information on revisions, contact the Registration holder.