

MATERIAL SAFETY DATA SHEET

IN CASE OF EMERGENCY CALL CANUTEC 613-996-6666

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

Preparation name: Novagib® 10L
Use of preparation: Horticultural plant growth regulator for professional use
Supplier: Fine Agrochemicals, Ltd.
Hill End House, Whittington, Worcester WR5 2RQ, United Kingdom
Tel: + 44-1905-361800

2. Composition/information on ingredients:

Product: A solution containing 0.9674% gibberellins A₄ and A₇
CAS No: 8030-53-3 (active ingredient)
PCPA Reg. No: 30403
Concentration: 10 grams Al/liter
Hazardous Ingredients: Gibberellins A₄ and A₇ technical. Caution. Causes eye irritation.
Exposure Limits: Not applicable.

3. Hazards identification:

KEEP OUT OF REACH OF CHILDREN

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 center 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. Take container, label or product name and Pest Control Product Registration Number with you when seeking medical attention.

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: Non-flammable. Flash point 102.5°C, auto ignition > 400°C

Extinguishing media: Use dry chemical, foam, CO₂, water mist.

Special exposure hazards: May give rise to hazardous fumes in a fire. Protective clothing must be worn.

Products of combustion and decomposition:

Compounds of carbon and nitrogen

6. Accidental release measures:

Personal precautions:	Wear protective clothing, see Section 8 "Exposure control/personal protection"
Environmental precautions:	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 irrigation or drinking water supplies or aquatic habitats by cleaning of equipment or disposal of wastes.
Methods for cleaning up:	In case of spillage use absorbent materials. Isolate spilled material for safe disposal and collect in sealable poly-lined containers. Ventilate area. Clean contaminated area with water. Do not allow spillages to contaminate drains, soil or surface waters.

7. Handling and storage:

Handling:	Users should wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
Storage:	Avoid contamination of seed, feed and foodstuffs. Keep container closed when not in use. Store below 75°F (24°C).

8. Exposure controls/personal protection:

- **KEEP OUT OF REACH OF CHILDREN.**
- Wash thoroughly with soap and water after handling.
- Wear long pants, a long-sleeved shirt and shoes plus socks during mixing/loading, application, clean-up, and repair activities. In addition, wear chemical-resistant gloves during mixing/loading, clean-up and repair activities.
- Users should wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.
- Do not re-enter or allow re-entry into treated areas until 12 hours after application.
- Apply only when the potential for drift to areas of human habitation or areas of human activity such as houses, cottages, schools and recreational areas is minimal. Take into consideration wind speed, wind direction, temperature, application equipment and sprayer settings.

9. Physical and chemical properties:

General information:

- Appearance: Clear, colorless liquid
- Odor: Alcoholic

Important health, safety and environmental information:

- pH (1% solution): 4.1
- Boiling point: 180°C
- Melting point: -60°C
- Flash point: 86°C (closed cup)
- Flammability: Non-flammable
- Explosive properties: Non-explosive
- Oxidizing properties: No data
- Vapor pressure: 10.7 Pa @ 20°C
- Relative density: 1.04

- Solubility
 - water solubility @ 20°C: Soluble
 - fat solubility: No data
- Partition coefficient: -0.92 log P_{OW}
- Viscosity: 57.8 mm²/s
- Vapor density: 2.6 g/l (solvent)

Other information: > 400°C (415°C solvent)

10. Stability and reactivity:

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

Conditions to avoid: Excessive heat

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 > 5,000 mg/kg
- Inhalation: LC₅₀ (4 hr) rat > 5.41 mg/l
- Dermal: LD₅₀ rat > 4,000 mg/kg

Irritation:

- Eye: Non-irritant
- Skin: Non-irritant
- Respiratory tract: No data
- Corrosivity: Not corrosive

Sensitization:

- Skin: Non-sensitizing

Carcinogenicity: Not carcinogenic

Mutagenicity: Not mutagenic

Reproductive toxicity: No data

Chronic toxicity: No data

12. Ecological information:

Ecotoxicity (active ingredient):

- Fish: Non-toxic
- Daphnia: Non-toxic
- Algae: No data
- Bird: No data
- Bee: Non-toxic
- Beneficial spp: No data

Persistence and degradability: 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:

TDG (Canada) Status:	Not classified
UN number:	Not classified
NMFC number:	101685
Class:	065
Proper shipping name:	Plant growth inhibitor, modifier or regulator
Packaging group:	Not classified
Marine Pollutant:	Not classified
Other applicable information:	Not classified

15. Regulatory information:

Symbol(s):	None
Risk Phrases:	None
Safety Phrases:	<p>S2 Keep out of reach of children</p> <p>S13 Keep away from food, drink and animal feed stuffs</p> <p>S20/21 When using, do not eat, drink or smoke</p> <p>S24/25 Avoid contact with skin and eyes</p> <p>S35 This container and its contents must be disposed of in a safe way</p> <p>S36/37 Wear suitable protective clothing and gloves</p> <p>S49 Keep in original container</p>

Canada

The product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

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.