

# GIBB LIQUID 4

## SAFETY DATA SHEET

### 1. PRODUCT & COMPANY IDENTIFICATION

**Product Name:** GIBB LIQUID 4  
**Pesticide classification:** Plant Growth Regulator  
**UN No.:** 1993

**Supplier**

Enviro Bio-Chem (Pty) Ltd  
Co. Reg. No.: 2013/194774/07  
44 Kerk Street, Lichtenburg  
North West, South Africa 2740

**Registration Holder**

RT Chemicals CC  
Co. Reg. No.: CK87/21925/23  
44 Kerk Street, Lichtenburg  
North West, South Africa 2740

**Telephone:** +27 87 231 7261  
**Fax:** 086 541 7948  
**Website:** www.envirobiochem.co.za

**24 Hr Emergency Number:** Bateleur: +27 83 123 3911

**In case of Poisoning:**

Poison Information Centre: +27 82 446 8946  
Tygerberg Hospital: (+27 21) 931 6129  
Poison Emergency Enquiries: (+27 21) 689 5227

**Common Name:** Gibberellic Acid 32 g/l SL

**Chemical Name:** GA<sub>3</sub>: (3S, 3aS, 4S, 4aS, 7S, 9aR, 9bR, 12S)-7, 12-dihydroxy-3- methyl-6- methylene-2-oxoperhydro-4a, 7- methano-9b, 3-propeno[1,2-b] furan-4-carboxylic acid.

**Empirical Formula:** C<sub>19</sub>H<sub>22</sub>O<sub>6</sub>

**CAS No.:** 77-06-5

**RSA Reg. No.:** L6174 Act 36 of 1947

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### 2. COMPOSITION / INFORMATION ON INGREDIENTS

<u>Ingredient Name</u>	<u>Concentration</u>
GA <sub>3</sub>	32 g/l

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### 3. HAZARD IDENTIFICATION

**Hazard Class:** WHO Class III -Slightly hazardous.

**Main Hazard:** Flammable and may cause skin and eye irritation.

**Flammability:** Highly flammable.

**Chemical Hazard:** No specific chemical hazard to mention.

**Biological Hazard:** No specific biological hazard to mention.

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### 4. FIRST AID MEASURES AND PRECAUTIONS

If poisoning is suspected, do not wait for symptoms to develop. Contact a physician, the nearest hospital or the nearest Poison Control Centre.

**Symptoms of Human Poisoning:** No signs and symptoms of poisoning are known or expected in humans.

#### First Aid Measures:

**Skin Contact:** Remove contaminated clothing, shoes and leather goods. Gently wipe off excess chemical. Wash skin gently and thoroughly with water and non-abrasive soap. Seek medical advice if necessary. Persons who become sensitised may require specialized medical attention.

**Eye Contact:** Immediately flush the contaminated eyes with gently flowing lukewarm water for 15 to 20 minutes, occasionally lifting the upper and lower lids. Obtain medical attention.

**Inhalation:** Remove source of contamination or move victim to fresh air. Keep person warm and at rest. Treat symptomatically and supportively as and when required.

**Ingestion:** Have victim rinse mouth thoroughly with water. Give water to dilute the material if victim is alert and not convulsing. Do not induce vomiting. Obtain medical attention immediately.

**Advice to Physician:** Treat symptomatically.

**Antidote:** There is no specific antidote for poisoning with this product.

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### 5. FIRE FIGHTING MEASURES

**Flammability:** Highly flammable.

**Extinguishing Agents:** Extinguish fires with carbon dioxide, dry powder or alcohol-resistant foam.

**Firefighting:** Firefighters and others that may be exposed should wear full protective clothing and self-contained breathing apparatus. Isolate the fire area and evacuate downwind. Fight fire from maximum distance or use unmanned hose holders or monitor nozzles. Contain fire control agents for later disposal. Use a recommended extinguishing agent for the type of surrounding fire. Avoid inhaling hazardous vapours. Do not scatter the material. Avoid pollution of waterways.

**Special Hazards:** None to specifically mention.

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### 6. ACCIDENTAL RELEASE MEASURES (SPILLAGE)

**Personal precautions:** Avoid contact with skin and eyes. Do not breathe in spray, fumes or mists. For personal protective equipment see Section 8.

**Environmental Precautions:** Do not allow entering drains or watercourses.

**Spills:** Keep spectators away. Isolate hazardous area and do not touch or walk through spilled material. Stop leak if it is safe to do so. Cover the spill with sand or a suitable non-combustible absorbent material. Sweep up the contaminated absorbent and place it into labelled containers for subsequent disposal according to Section 13 of this document.

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## 7. HANDLING AND STORAGE REQUIREMENTS

**Handling:** Avoid open flames, excessive high storage temperatures and direct sunlight. Avoid contact with eyes, prolonged contact with skin and inhalation of fumes. Use with adequate ventilation. Wash hands before eating, drinking, chewing gum, smoking or using the toilet. Remove clothing immediately if the product gets inside.

**Storage:** Store in a dry, cool and covered warehouse in original, well-labelled containers. Store away from incompatible materials and heat sources. Store away from food, feedstuffs, fertilisers and seed. Keep away from children and animals.

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## 8. EXPOSURE CONTROL / PERSONAL PROTECTION

**Acceptable Daily Intake (ADI):** No data available.

**Engineering Control Measures:** It is essential to provide adequate ventilation. The measures appropriate for a particular work site depend on how this material is used and on the extent of exposure. Ensure that control systems are properly designed and maintained.

### Personal Protective Equipment:

**Clothing:** Wear appropriate protective (impervious) clothing (long sleeved cotton overalls, apron, rubber boots, face shield and hat or cap) and equipment to prevent skin contact with the substance.

**Gloves:** Wear appropriate chemical resistant protective gloves (PVC or neoprene gloves) to prevent contact with this substance.

**Eye Protection:** Wear splash-proof safety goggles and face-shield to prevent contact with this substance. 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.

**Respiratory:** An approved suitable full-face respirator is required.

**Other Protection:** Do not eat, drink or smoke while handling this product. Prevent contamination of food, feeds, drinking water and eating utensils. After using this product wash hands and face before eating. Take extreme care to avoid drift. Wash accurately (preferably a shower) after a work shift. Wash hands during with soap and water breaks and at the end of work.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance:** Colorless to light yellow liquid.

**Odor:** None

**Flammability:** Highly flammable.

**Explosive Properties:** Non-explosive

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## 10. STABILITY AND REACTIVITY

**Stability:** Stable for up to 2 years when stored in a dry, cool covered warehouse in original containers.

**Conditions to Avoid:** No data available.

**Incompatible Materials:** Incompatible with oxidizing agents.

**Decomposition Products:** None to specifically mention.

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## 11. TOXICOLOGICAL INFORMATION

Acute toxicity based on the active ingredient toxicity.

**Acute Oral LD<sub>50</sub> (rat):** >5 000 mg/kg. Harmful if swallowed.

**Acute Dermal LD<sub>50</sub> (rabbit):** >2 000 mg/kg

**Acute Inhalation LC<sub>50</sub> (rat, 1 hr):** 5.23 mg/l air.

**Skin Irritation (rabbit):** May cause mild skin irritation. Repeated exposure to skin may result in dermatitis, due to the solvent, which is a defatting agent.

**Eye Irritation (rabbit):** Due to the solvent, the product can cause severe eye irritation. Prolonged contact with the product may result in temporary damage to the membranous tissue covering the cornea, but healing is prompt.

**Skin Sensitization (guinea pig):** Not a skin sensitizer.

**Chronic Dietary Study:** No data available.

**Carcinogenicity:** Not carcinogenic.

**Mutagenicity:** Not mutagenic.

**Reproductive Hazard:** No data available.

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## 12. ECOLOGICAL INFORMATION

**Ecotoxicological Information:** No risks to the environment are expected from use of gibberellic acids, because the product does not harm animals or plants in the amounts used. Gibberellic acids act as plant growth enhancers and are naturally broken down in the environment. Gibberellic acids and related isomers have been classified as biochemical pesticides.

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## 13. DISPOSAL CONSIDERATION

**Pesticide Disposal:** Open dumping or burning of this pesticide is prohibited. Waste resulting from the use of this product that cannot be re-used or reprocessed should be disposed of in a landfill approved for pesticide disposal. Never pour untreated waste or surplus products 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.

**Package Product Wastes:** Emptied containers retain vapour and product residues. Observe all labelled safeguards. Triple rinse empty containers by inverting the empty container over the spray or mixing tank and allowing it to drain 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 10 % of that of the container. Add the rinsing to the contents of the spray tank before destroying the container. Destroy the emptied containers by perforation and flattening. Dispose of containers as hazardous waste via a licensed disposal contractor to an approved landfill. Do not re-use the empty container for any other purpose.

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## 14. TRANSPORT INFORMATION

**UN No.:** 1993

**Class:** 3.1

**Packaging Group:** II

**Proper Shipping Name:** Flammable Liquid; N.O.S. (contains Gibberellic acid)

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## 15. REGULATORY INFORMATION

**Risk Phrases:** R12- Extremely flammable.

R22- Harmful if swallowed.

R36/38- Irritating to eyes and skin.

**Safety Phrases:** S1/2- Keep locked up and out of reach of children.

S16- Keep away from source of ignition – no smoking.

S24/25- Avoid contact with skin and eyes.

S36/37/39- Wear suitable protective clothing, gloves and eye/face protection.

S46- If swallowed, seek medical advice immediately and show this container and label.

**National Legislation:** This product is registered under Act 36 of 1947 of the Republic of South Africa. It is a violation of South African law to use this product in any manner inconsistent with its approved labelling. Read and follow all label directions.

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## 16. OTHER INFORMATION

**Note:** Read and understand all the information on the product label before using the product.

**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.

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