

Elppa

SAFETY DATA SHEET

1. PRODUCT & COMPANY IDENTIFICATION

Product Name: Elppa
Pesticide Classification: Plant Growth Regulator
UN No.: Not regulated.

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
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: Gibberellins A₄ + A₇ 19 g/l and 6-Benzyl adenine 19 g/l SL

Chemical Name: GA₄: (3S, 3aR, 4S, 4aR, 7R, 9aR, 9bR, 12S)- 12- hydroxy -3- methyl -6- methylene -2- oxoperhydro-4a,7-methano-3,9bpropanoazuleno [1,2-b]furan-4- carboxylic acid.
GA₇: (3S, 3aR, 4S, 4aR, 7R, 9aR, 9bR, 12S)- 12- hydroxy -3- methyl -6- methylene -2- oxoperhydro-4a,7-methano-9b,3- propenoazuleno [1,2-b]furan-4- carboxylic acid
6-BAP: 6-benzyladenine

Empirical Formula: GA₄: C₁₉H₂₄O₅ and GA₇: C₁₉H₂₂O₅ and 6-BAP: C₁₂H₁₁N₅

CAS No.: GA₄: 468-44-0 and GA₇: 510-75-8 and 6-BAP: 1214-39-7

RSA Reg. No.: L6160 Act 36 of 1947

2. COMPOSITION / INFORMATION ON INGREDIENTS

<u>Ingredient Name</u>	<u>Concentration</u>
GA ₄ + GA ₇	19 g/l
6-BAP	19 g/l

3. HAZARD IDENTIFICATION

Hazard Class: WHO Class II -Moderately hazardous.

Main Hazard: Mild skin irritation can occur, but unlikely to cause eye irritation.

Flammability: Non-flammable

Chemical Hazard: Fire may produce irritating or poisonous vapours (compounds of carbon and nitrogen), mists or other products of combustion.

Biological Hazard: No specific biological hazard to mention.

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 if necessary.

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. Administration of oxygen should be performed by qualified personnel. Get medical attention immediately if effects persist.

Ingestion: Have victim rinse mouth thoroughly with water. Do not induce vomiting. Give plenty of water or milk to drink (1 to 2 glasses). Seek medical advice immediately.

Advice to Physician: Treat symptomatically.

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

5. FIRE FIGHTING MEASURES

Flammability: Non-flammable

Extinguishing Agents: Use carbon dioxide, dry chemical powder, water fog (or fine water spray) or foam. Water spray can be used for cooling of containers exposed to fire, but avoid water coming into contact with the product.

Firefighting: 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: Fire may produce irritating or poisonous vapours (compounds of carbon and nitrogen), mists or other products of combustion. Firefighters and others that may be exposed should wear full protective clothing and self-contained breathing apparatus.

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 product to enter 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.

7. HANDLING AND STORAGE REQUIREMENTS

Handling: The product is relatively safe to handle. Handle with the care and caution applicable to crop protection chemicals. Avoid spillage. Harmful if swallowed. May irritate eyes and skin. Avoid contact with eyes and skin and inhalation of fumes. Avoid exposure to spray. Use with adequate ventilation. Wash hands before eating, drinking, chewing gum, smoking or using the toilet. Operators should change and wash clothing daily. Do not apply directly to areas where surface water is present or to intertidal areas below the mean high-water mark.

Storage: Store in a dry, cool covered warehouse in original, well-labelled containers. Store away from oxidising agents. Store away from food, feedstuffs, fertilisers, seed and agricultural chemicals. Keep away from children and animals.

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 eye protection. During mixing or pouring operations or other activities in which eye contact with undiluted product is likely to occur, splash goggles should be worn. 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 Protection: No special respirator requirements are needed when the product is used as recommended.

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 with soap and water during breaks and at the end of work.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Colorless to light yellow liquid.

Odor: None

Solubility in Water: Completely soluble.

Explosive Properties: Non-explosive.

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: Fire may produce irritating or poisonous vapours (compounds of carbon and nitrogen).

11. TOXICOLOGICAL INFORMATION

Acute Oral LD₅₀ (rat): >5 000 mg/kg.

Acute Dermal LD₅₀ (rat): >4 000 mg/kg.

Acute Inhalation LC₅₀ (rat, 4 hr): No data available.

Skin and Eye Irritation (rabbit): Mild skin irritation can occur, but unlikely to cause eye irritation.

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

Chronic Dietary Study: No data available.

Carcinogenicity: Not carcinogenic.

Mutagenicity: Not mutagenic.

Reproductive Hazard: Not a reproductive hazard.

12. ECOLOGICAL INFORMATION

Aquatic Toxicity Fish LC₅₀ (48 hr): 6 000 ppm (carp). Practically non-toxic to fish.

Aquatic Toxicity Daphnia EC₅₀ (48 hr): Non-toxic to daphnia.

Aquatic Toxicity Algae EC₅₀ (5 days): No data available.

Avian Toxicity LD₅₀ (9 days): Practically non-toxic to birds.

Bee Toxicity LD₅₀: Practically non-toxic to bees.

Biodegradability: Rapidly degraded.

Bio-accumulation: No data available.

Mobility: No data available.

13. DISPOSAL CONSIDERATION

Pesticide Disposal: Dispose of waste product as hazardous waste via a licensed disposal contractor to an approved landfill. Open dumping or burning of this pesticide is prohibited. 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 until container is destroyed. Triple or pressure rinse empty containers. Pour rinse water into spray tank to spray on target area. Store for collection by approved waste disposal service. Dispose of as hazardous waste via a licensed disposal contractor to an approved landfill. Do not use containers for any other purpose. Follow all local and national regulations.

14. TRANSPORT INFORMATION

UN No.: Not regulated.

Class: Not regulated.

Packaging Group: Not regulated.

Proper Shipping Name: Not regulated.

15. REGULATORY INFORMATION

Risk Phrases: R22- Harmful if swallowed.

R43- May cause sensitization by skin contact.

Safety Phrases: S2- Keep out of reach of children.

S13- Keep away from food, drink and animal feeding stuffs.

S20- When using do not eat or drink.

S24/25- Avoid contact with skin and eyes.

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

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.

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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