

**Elumis™ Trio is a selective herbicide, for the control of annual weeds in Maize.**

**ACTIVE CONSTITUENT:**

Nicosulfuron 30g/l  
Atrazine 200g/l  
Mesotrione 70g/l

GROUP 2 5 27 HERBICIDES

**Hazard Statements:**

H303: Maybe harmful if swallowed  
H410: Very toxic to aquatic life with long lasting effects.  
H317 May cause an allergic skin reaction.  
H361 Suspected of damaging the unborn child.  
H373 May cause damage to organs through prolonged or repeated exposure.

**Precautionary Statements:**

KEEP LOCKED UP AND OUT OF REACH FROM CHILDREN, OTHER UNAUTHORISED PERSONS, AND ANIMALS.

Keep under lock and key away from children.

Wash hands after use.

Do not breathe mist or vapours.

Wear protective gloves/protective clothing and face protection

Do not eat, drink, or smoke when using this product.

Prevent contamination of food, feed, drinking water and eating utensils

**Operator Safety/Personal Protective Equipment:**

Product for agricultural use only.

The handling of the product must only be carried out by a trained worker.

Do not eat, drink, or smoke while handling and applying the product.

Do not use equipment with leaks or defects and do not unclog nozzles, holes, and valves with your mouth.

Do not use Personal Protective Equipment (PPE) that is damaged, damp, expired, or with a useful life outside the specification. Follow the recommendations determined by the manufacturer.

In case of accidental contact between the person and the product, follow the guidelines described in first aid and quickly seek an emergency medical service.

Recommended Personal Protective Equipment (PPE) must be worn in the following order: Overalls, boots, mask, goggles, Arab cap and gloves. PPE must be worn before handling product.

Follow the Personal Protective Equipment (PPE) manufacturer's recommendations regarding cleaning, conservation, and disposal of damaged PPE.

**First Aid and Medical Advice:**

Look for an emergency medical service immediately, taking the product's packaging, label, leaflet, information leaflet and/or agronomic prescription.

**Inhalation:** If product is inhaled ("breathed in"), move person to open, ventilated area.

**Skin contact:** CAUTION: MAY CAUSE ALLERGIC SKIN REACTIONS. In case of contact, remove all contaminated clothing and accessories (belt, bracelets, glasses, watch, rings, etc.) and wash skin with plenty of running water and mild soap for at least 15 minutes.

**Eye contact:** CAUTION: In case of contact, wash with plenty of running water for at least 15 minutes. Prevent wash water from entering the other eye. If you wear a contact lens, it must be removed.

**Ingestion:** If the product is swallowed, do not induce vomiting. If vomiting occurs naturally, lay the person on their side and seek medical support. Do not give the person anything to drink or eat.

**General treatment:** If a person is experiencing side effects from using this product such as vomiting or chest pain, seek immediate medical advice.

Symptomatic and supportive treatment according to the clinical picture to maintain vital functions. Special attention should be given to respiratory support.

**Effects of chemical interactions:**

No effects of chemical interactions have been reported for mesotrione and atrazine in humans.

**Antidote and Emergency Medical Treatment:** There is no specific antidote. Symptomatic treatment. For further information: See leaflet.

**Re-entry interval in treated crops and areas:**

Re-entry into the crop after application of the product should only occur when the spray solution is dry (24 hours). If it is necessary to re-enter the crop before this period, it is necessary to use the same Personal Protective Equipment used during the application.

**Environment and Wildlife:**

This product is very toxic to the environment, avoid contamination and preserve nature.

This product is HIGHLY MOBILE, presenting a high potential for displacement in the soil, and reaching groundwater.

This product is HIGHLY PERSISTENT, in the environment.

This product is HIGHLY TOXIC to aquatic organisms (algae, fish etc.).

Do not use equipment with leaks.

Do not apply the product when rain or strong winds are forecast or in the hottest hours.

Only apply the recommended doses.

Do not wash the empty packaging or applicator equipment in lakes, fountains, rivers, and other bodies of water.

Avoid water contamination.

Observe the provisions contained in state and municipal legislation concerning aero-agricultural activities.

**STORAGE INSTRUCTIONS AND HANDLING OF THE PRODUCT**

Keep the product in its original package, always closed.

The **storage** place must be exclusive for toxic products, and must be isolated from food, drinks, or other materials.

The **chemical storage** construction must be of masonry or non-combustible material.

The place must be ventilated, covered, and have bunded waterproof flooring.

Put a warning sign with the words: **WARNING PESTICIDE STORE**

Lock the place, preventing access by unauthorized people, especially children.

Observe the provisions contained in state and municipal legislation.

Do not transport the product together with food, medication, feed, animals, and people.

Follow the specific technical guidelines of a qualified professional.

Keep the product properly closed, in its original packaging, in a locked place, away from the reach of children and animals.

**IN CASE OF ACCIDENT IN TRANSIT:**

Isolate and signal the contaminated area.

Use Personal Protective Equipment if dealing with any spillage.

Contact the competent local authorities and the company Syngenta

Try to prevent the product from reaching culverts, drains or bodies of water.

In case of fire, use WATER extinguishers IN THE FORM OF MIST, CO2 OR CHEMICAL POWDER, staying downwind to avoid intoxication.

**Accidental Spills:**

For small spills: Spread absorbent such as sand, friable soil or vermiculite over the spill. Collect up spilt material thoroughly and place it in a waste bin or in a plastic bag and dispose of the collected waste according to local regulation. Do not flush into water bodies or sewer systems.

For large spills: Refer to the Safety Data Sheet.

Note: Spilt product must not be re used.

**Product Information**

**Mode of Action**

The product

**Elumis™ Trio** is composed of the active ingredients Nicosulfuron, mesotrione and atrazine.

**INSTRUCTIONS FOR USE:**

**Number, Season, and Interval of Application:**

**Elumis™ Trio** is a systemic herbicide, selective for the maize crop, for early post-emergence application of weeds, in a total area, in the following modalities:

**Maize:** Application in the early post-emergence of weeds in maize.

**Factors related to post-emergence application:**

Weeds and stage of application: To ensure total weed control with **Elumis™ Trio**, carefully observe the species indicated and the respective stages of development indicated in the table "Instructions for Use". Weeds are more sensitive to the product in their initial stage of development with 2 to 4 leaves. The effect of the product on weeds is manifested 3 to 5 days after application, through the bleaching of the apical meristem and younger leaves, which later become necrotic.

**Adjuvants/Adhesive Spreaders:** The addition of spreaders or adjuvants to the spray solution is essential for the post-emergence effect of the product to provide better weed control. Mineral oil at a concentration of 0.5% v/v is recommended.

Influences of weather conditions on the application:

**Soil moisture:** Apply **Elumis™ Trio** herbicide when the soil has enough moisture for the good development of plants. Do not apply the product on dry soil, especially if there has been a prolonged period of drought that has put weeds under drought stress.

**Atmospheric conditions:** Applications must be made with a minimum relative humidity of 55% and a maximum temperature of 27°C. The application of **Elumis™ Trio** in the morning (until 10:00 am) or in the afternoon (after 4:00 pm) is most effective, as these conditions provide better absorption of the product by the plants.

**Dew/Rain:** Avoid applications on plants that are excessively wet by rain or dew.

**Winds:** Avoid applications with wind above 10 km/hour.

**Rain after application of the product:** A minimum period of 2 to 3 hours without rain is required after application for the herbicide to be absorbed.

**Single application:** Recommended for medium to low density weed infestations. The best time for weed control is early post-emergence (2-4 leaves), and before the five-leaf stage of the maize.

#### APPLICATION MODE:

**Elumis™ Trio** must be applied in the total area, using conventional ground sprayers (backpack or tractor).

Land Application: Use a spray volume of 100 to 250 liters per hectare and flat fan-type nozzles that provide uniform distribution of the spray on the leaves of the weeds. The application pressure recommended by the manufacturer of nozzles or application tips must be observed. The equipment may be backpack (manual or motorized) or tractor mounted.

Crop	Weeds	Weed stage at application	Dosage (Litre/Ha)	Remarks
Maize	Most annual broadleaf and grass weeds, including Mulungwe ( <i>Rottboellia cochinchinensis</i> )	2-4 leaf stage	1.8 L/ha. OR 180ml/16L knapsack sprayer. Use 10 knapsacks per hectare.	Water volume: 100– 250 L/ha.

#### Use limitations & compatibility statement:

Do not apply **Elumis™ Trio** on weeds outside the recommended stage. Do not apply the **Elumis™ Trio** on sweetcorn, popcorn, or seed maize.

#### Follow-on crops:

The following crop planting interval should be adhered to:

Crops	Crop planting interval
Wheat and barley	5 months
Grain sorghum	5 months
Potatoes	12 months
Soybean, dry beans, groundnuts, Sunflower and cotton	9 months
All other crops	24 months

In case the product is used in an export crop, check, before use, the maximum residue levels accepted in the destination country for crops treated with this product

This product cannot be used together with organophosphates or carbamates insecticides. Do not apply this product 14 days before or after applying organophosphates or carbamates.

#### Information about herbicides resistance management:

The successive use of herbicides with the same mechanism of action to control the same target can contribute to an increase in the population of the target weed resistant to this mechanism of action, leading to loss of product efficiency and consequent damage.

As a practice of weed resistance management and to avoid problems with resistance, here are some recommendations.

Rotation of herbicides with different mechanisms of action to control the same target, when appropriate.

Adopt other weed control practices following Good Agricultural Practices.

Use the dose recommendations and application method prescribed according to the product's package insert.

Always consult an Agronomist for the direction of the main regional strategies for the management of resistance and the technical orientation of the application of herbicides.

#### ADDITIONAL SAFETY INFORMATION

##### PRECAUTIONS DURING PRODUCT PREPARATION:

- Use Personal Protective Equipment - PPE: Professionally made overalls with water / chemical repellent treatment with long sleeves going over the cuff of the gloves and the legs of the pants over the boots, rubber boots, mask with mechanical filter class P2 / mask with combined filter (filter chemical against organic vapors and mechanical filter class P2), safety glasses with side shields and nitrile gloves.
- Handle the product in an open and ventilated place, using the recommended Personal Protective Equipment (PPE).
- When opening the package, do so in such a way as to avoid spills.

##### PRECAUTIONS DURING PRODUCT APPLICATION:

- Use Personal Protective Equipment - PPE: Professionally made overalls with water / chemical repellent treatment with long sleeves going over the cuff of the gloves and the legs of the pants over the boots, rubber boots, mask with mechanical filter class P2 / N95 mask with combined filter (filter chemical against organic vapors class P2 mechanical filter), safety glasses with side shields, Arab cap and nitrile gloves.
- Avoid contact with the treated area as much as possible.
- Only apply the product in the recommended doses and observe the withdrawal period (time interval between the last application and harvest).
- Do not allow animals, children, or any unauthorized person to remain in the area where the product is being applied.
- Do not apply the product during strong winds and in the hottest hours of the day, respecting the best weather conditions for each region.
- Check the wind direction and apply so as not to drive or walk into the product mist.
- Only apply the product in the recommended doses and observe the withdrawal period (time interval between the last application and harvest).

##### PRECAUTIONS AFTER APPLYING THE PRODUCT:

- Mark the area with the words "ENTRY PROHIBITED. TREATED AREA" and maintain the notices until the end of the re-entry period.
- Avoid contact with the treated area as much as possible. If you need to enter the area treated with the product before the end of the re-entry interval, use the Personal Protective Equipment (PPE) recommended for use during application.
- Do not allow animals, children, or any unauthorized person to remain in treated areas immediately after application.
- Before removing Personal Protective Equipment (PPE), always wash gloves while still wearing to avoid contamination.
- Keep the rest of the product properly closed in its original packaging, in a locked place, out of the reach of children and animals.
- Shower immediately after applying the product and change clothes.
- Wash clothes and Personal Protective Equipment (PPE) separately from other family clothes. When washing clothes, wear waterproof gloves and apron.
- After each application of the product, maintain and wash the application equipment.
- Do not reuse empty packaging.
- When disposing of packaging, use Personal Protective Equipment (PPE): Overalls with water-repellent treatment with long sleeves, nitrile gloves and rubber boots.

##### WASHING, STORAGE, RETURN, TRANSPORT AND DISPOSAL PROCEDURES OF EMPTY PACKAGING AND REMAINING PRODUCTS UNABLE TO USE OR DISUSE:

###### WASHABLE RIGID PACKAGING

##### Package Washing:

During the washing procedure, the operator must be using the same PPE - Personal Protective Equipment recommended for the preparation of the product syrup.

##### Package Triple Rinse (Manual Wash):

This package must be subjected to the Triple Rinse process, immediately after emptying, adopting the following procedures:

- Completely empty the contents of the package into the sprayer tank, keeping it in a vertical position for 30 seconds.
- Add clean water to the package up to ¼ of its volume.
- Cover the package well and shake it for 30 seconds.
- Pour the washing water into the spray tank.
- Do this operation three times.
- Disable the plastic or metal packaging by crushing & perforating the bottom.

##### EMPTY PACKAGE STORAGE:

Keep triple rinsed empty packaging in separate banded area from full packs. Store in a secure area, until disposed in line with local authority recommendations.

The storage of empty packages, until their return by the user, must be carried out in a covered, ventilated place, sheltered from the rain and with an impermeable floor, or in the same place where the full packages are kept.

##### TRANSPORT:

Empty packaging cannot be transported together with food, beverages, medicines, feed, animals, and people.

##### PRODUCT SHELF-LIFE:

The product is stable for at least two years from the date of manufacture.

##### Legal Aspects:

Before applying the product read the attached package leaflet.

##### User's Risk:

The user bears the risk for damage resulting from factors beyond the manufacturer's control.

All recommendations for use of the product are based on the current state of the manufacturer's knowledge. Since the manufacturer cannot control the application, use, storage or processing of the product, the manufacturer cannot accept responsibility, therefore.

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