

## DATA SHEET

### UREA BARBARY PLANTE G3

The Fertilizer Hydro-Retentive Evolution **UREA BARBARY PLANTE G3** is a fertilizer based on nitrogen (N), and trace elements encapsulated in a hydro-retentive composed of biodegradable agricultural super absorbent copolymer developed specifically by **BARBARY PLANTE**. This unique third-generation fertilizer hydro-retentive comes in the form of a green capsule.

The Fertilizer Hydro-Retentive Evolution **UREA BARBARY PLANTE G3** is a basal fertilizer that promotes plant growth and protection while optimizing water management and soil quality. Thanks to its unique formulation, this fertilizer helps reduce the production of nitrates and N<sub>2</sub>O (nitrous oxide), two harmful compounds for the environment.

The French Ministry of Agriculture has approved the fertilizers hydro-retentive **BARBARY PLANTE** according to a "Certificate of Free Circulation" with the number 9010133.

The Fertilizer Hydro-Retentive **BARBARY PLANTE** have received prestigious awards and certifications, including the Gold Medal for Inventions and New Techniques, and the Gold Medal from the World Intellectual Property Organization (WIPO).

#### Composition UREA BARBARY PLANTE G3:

- Approximately 5% nutrients
  - Nitrogen (N)
  - Trace elements
- Approximately 95% of water retained in a hydrogel capsule based on BARBARY PLANTE agricultural superabsorbent copolymer.

#### Characteristics:

|                                               |                  |
|-----------------------------------------------|------------------|
| Form:                                         | Hydrogel         |
| Color:                                        | Green            |
| Ionic character:                              | Anionic          |
| Particle size:                                | 4 - 9 mm         |
| Approximate bulk density:                     | 0.8 - 0.9        |
| Absorption capacity in deionized water (g/g): | 100-300          |
| Storage Temperature:                          | from 5°C to 30°C |

#### UREA BARBARY PLANT G3 is recommended for the following crops:

Alfalfa, almonds, avocados, apples, orange, lemon, olive, pomegranate, mango, palm, barley, all beans, broccoli, cabbage, cauliflower, carrots, celery, citrus, soybeans, corn, cotton, grapes, lawns, lettuce, melons, nectarines, tea, coffee, rice, pears, peaches, peanuts, sorghum, sugar cane, beets, strawberries, tomatoes, grass, turnips, nuts, watermelons, wheat, and all other crops.

#### Instructions for use

The recommended application rates are based on the type of soil:

1. **Field cultivation:** apply approximately 250 to 300 kg/hectare of **UREA BARBARY PLANTE G3** before planting by spreading and mixing with the soil to a depth of 5 to 10 cm in the areas of root development or by location in the planting lines below the seeds.
2. **Tree and orchard cultivation:** apply 500 g to 1 kg of **UREA BARBARY PLANTE G3** per tree by mixing it with the substrate of each hole before planting the trees.
3. **Market gardening and horticulture:** apply 50 g to 100 g of **UREA BARBARY PLANTE G3** per plant by mixing it with the soil before planting, adding it to each planting hole along each row, or spreading it under the seeds in each row.

## Key Benefits of UREA BARBARY PLANTE G3:

1. Reduced watering by up to 50%
2. Rapid water absorption up to 500 times its original volume
3. Slow release of water and nutrients
4. Neutralization of the harmful effects of salts allowing the desalination of brackish water
5. Improvement of arid, sandy, and saline soils
6. Improved yields in quantity and quality compared to the use of conventional fertilizers
7. Reduction of cultivation cycles
8. Optimization of soil interventions, reduction of chemical pollution and mitigation of fertilizer leaching.
9. Reduced operating costs
10. Guaranteed recovery of young plants in drylands
11. Regeneration of Ancient Trees
12. Regeneration and Healing of Diseased Trees
13. Obtaining organic harvests by reducing the need for chemical fertilizers and phytosanitary products
14. Contributes to the preservation of water quality by reducing nitrate production and limiting water pollution.
15. Reduces greenhouse gas emissions, including N<sub>2</sub>O, which helps mitigate air pollution and limit climate impacts.

## The UREA BARBARY PLANTE G3 reduced:

The effects of erosion, soil degradation, drought, desertification, groundwater pollution, nitrate infiltration and nitrogen-related greenhouse gases.

## Application ranges of the UREA BARBARY PLANTE G3:

Desert soils, barren lands, drought zones, arboriculture, large-scale crops, forests, green spaces, sports fields, golf courses, lawns etc.

## Packaging:

|                     |                                                                                                    |
|---------------------|----------------------------------------------------------------------------------------------------|
| Bucket:             | 950 g, 5 kg, 20 kg                                                                                 |
| Plastic bag:        | 25 kg et 50 kg                                                                                     |
| Flexible container: | 500 kg et 750 kg                                                                                   |
| Other packing:      | Contact us at <a href="mailto:servicecommercial@agrofrance.fr">servicecommercial@agrofrance.fr</a> |

## Storage:

Shelf life: 12 months, if the product is stored in a building at a stable temperature between 5°C and 30°C (Do not expose the product to high temperatures and protect it from sunlight).

## Compatibility:

Can be mixed with most commonly used products. It is always recommended to perform a compatibility test beforehand.

## Precautions:

Keep out of reach of children and store away from pets, livestock, food, and water.

Our liability is limited to guaranteeing the product in its original packaging.

## Agro France International Holding BARBARY PLANTE

Salah Barbary  
Chairman