

PHOEMYC+

SAFETY DATA SHEET

SECTION 1: Identification of the substance or mixture, and of the company or business

1.1. Product identifier

Commercial name: PHOEMYC+

Product: Phoemyc+ is a product made from *Beauveria bassiana* (isolate 203, CBS 121097) spores that have been grown in a vegetable substance (rice).

Component 1: *Beauveria bassiana* isolate 203 is a live organism that is originally from Elche (SE Spain).

Component 2: Rice (*Oryza sativa*).

Component 3: Water.

1.2. Relevant identified uses of the substance or mixture, and uses advised against

Use: biological control agent, for use in crops (such as palms) against insects.

Effects of the product: The final solution is a solid product that acts as a biological control agent against palm pests such as red palm weevil (Güerri-Agullo et al., 2010, 2011 and Ricaño et al., 2013)

Güerri-Agulló B., Gómez-Vidal S., Asensio L., Barranco P., Lopez-Llorca L. V. (2010) Infection of the Red Palm Weevil (*Rhynchophorus ferrugineus*) by the entomopathogenic fungus *Beauveria bassiana*: A SEM study. *Microscopy Research and Technique*, **73**, 714-725.

Güerri-Agulló B., López-Follana R., Asensio L., Barranco P., Lopez-Llorca L. V. (2011) USE OF A SOLID FORMULATION OF *BEAUVERIA BASSIANA* FOR BIOCONTROL OF THE RED PALM WEEVIL (*RHYNCHOPHORUS FERRUGINEUS*) (COLEOPTERA: DRYOPHTHORIDAE) UNDER FIELD CONDITIONS IN SE SPAIN. *Florida Entomologist* 94(4), 737-747.

Ricaño J., Güerri-Agulló B., Serna-Sarriás M.J., Rubio-Llorca G., Asensio L., Barranco P., Lopez-Llorca L. V. (2013). Evaluation of the Pathogenicity of Multiple Isolates of *Beauveria bassiana* (Hypocreales: Clavicipitaceae) on *Rhynchophorus ferrugineus* (Coleoptera: Dryophthoridae) for the Assessment of a Solid Formulation Under Simulated Field Conditions. *Florida Entomologist*, 96(4):1311-1324.

1.3. Details of the supplier of the Safety Data Sheet

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Ctra. Agost 126
03690 San Vicente del Raspeig
Alicante
Tel (+34) 865682701
E-mail: info@glenbiotech.es
www.glenbiotech.es

1.4. Emergency telephone number

National Toxicology Institute (+34) 915620420 (Spain)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

No formal classification requirements, including pictograms, signal words, hazard statements or precautionary statements are required for the plant protection product. The only phrase that must appear on the label for the plant protection product relates to the assumption that all microorganisms (the active substance) are considered to be potential allergens, and is worded as follows:

“Contains *Beauveria bassiana* strain 203. Micro-organisms may have to potential to provoke a sensitising reaction”

2.2. Label elements

“Contains *Beauveria bassiana* strain 203. Micro-organisms may have to potential to provoke a sensitising reaction”

Precautionary statements (P statements)

P210: Keep away from heat.

P402 – Store in a dry place.

P305 + P351 + P338 – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P280 – Wear protective gloves/eye protection/face protection

P411 + P235 – Store at temperatures not exceeding 22°C. Keep cool

P271 – Use only outdoors or in a well-ventilated area.

P312 – Call a POISON CENTRE or a doctor if you feel unwell.

SECTION 3: Composition/information on ingredients

3.1. Substances and mixtures

Rice fragments 69%

Water 30%

Beauveria bassiana isolate 203 (CBS 121097) 1% ($3,33 \times 10^9 \pm 2,12 \times 10^9$ conidia/g of product)

SECTION 4: First aid measures

4.1. Description of first aid measures

For inhalation: Take the affected individual to a ventilated location away from the area of exposure.

For skin contact: Although this is not dangerous, rinse the affected area with plenty of water and mild soap.

For eye contact: Rinse with plenty of water for at least 15 minutes. If contact lenses are present, remove them if possible and continue rinsing the eyes with plenty of water. If the contact lenses are stuck, do not remove them forcibly as this could cause additional damage.

For ingestion: If ingested, consult a doctor and provide the product's Safety Data Sheet.

4.2. Most important symptoms and effects, both acute and delayed

Headache.

Throat irritation.

4.3. Indications of any immediate medical attention and special treatment needed

Not applicable.

SECTION 5: Firefighting measures

5.1. Extinguishing media

This product is not flammable in regular storage conditions. If a fire occurs, use the following fire extinguishing measures: multi-purpose powder extinguishers, CO₂ extinguishers, water.

5.2. Special hazards arising from the substance or mixture

None.

5.3. Advice for fire fighters

No specific recommendations.

SECTION 6: Measures in the event of accidental spills

6.1. Personal precautions, protective equipment and emergency procedures

Use protective equipment to clean up the material and avoid the presence of individuals

without protection in the area of the spill.

6.2. Environmental precautions

Not classified as harmful to the environment.

6.3. Methods and materials for containment and cleaning up

Clean-up staff must use the necessary PPE. Collect the solid material and clean the area with plenty of water.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Keep the containers closed and in their original boxes.

7.2. Conditions for safe storage, including any incompatibilities

Store in a cool, dry area with less than 30% humidity. Do not store in locations with temperatures over 20 °C. The product will remain stable in these conditions during three months. It will remain stable longer at 4 °C.

7.3. Specific end uses

The recommendations have already been specified.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

The substances that make up the product do not have limited environmental values.

8.2. Exposure controls

Hand protection: Chemical resistant (e.g. nitrile rubber) gloves

Eye protection: Safety glasses/face shield

Skin and body protection: Wear clothing that covers the skin, dust mask (FFP2)

Hygiene measures: Handle in accordance with good industrial hygiene and safety practice.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

Physical state: solid

Colour: yellowish white

Odour: characteristic (ozone)

Product features

Solid product with particle sizes ranging from 5 to 10 mm.

pH: Not available

Apparent density: not available

Solubility in water: not available
Melting point/interval: not available
Boiling point: not available
Combustion properties: not available
Autoignition: not available
Flash point: not available
Ignition: not available
Vapour pressure (air=1): not available
Viscosity: not available

SECTION 10: Stability and reactivity

10.1. Reactivity

No known reactivity.

10.2. Chemical stability

Stable in storage conditions.

10.3. Possibility of hazardous reactions

Stable in storage conditions.

10.4. Conditions to avoid

Storage temperatures above 30 °C could affect the product's effectiveness.

10.5. Incompatible materials

Not applicable for storage.

10.6. Hazardous decomposition products

None that are known.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Avoid contact with the eyes and skin, and if they are exposed, rinse with plenty of water and contact the National Toxicology Institute.

SECTION 12: Ecological information

Experimental data about the substances that make up the product is not available.

12.1. Toxicity

Not determined.

12.2. Persistence and degradability

Not determined.

12.3. Bioaccumulative potential

Safety Data Sheet – Phoemyc+

In compliance with EU Regulation No. 453/2010

REGULATION (EC) No 1272/2008

Date Issued: 22 July 2017

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Not determined.

12.4. Mobility in soil

Not determined.

12.5. Results of PBT and vPvB assessment

Not determined.

12.6. Other adverse effects

None described.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Eliminate used packages via authorised centres or management systems.

SECTION 14: Transport information

Not regulated for transport.

SECTION 15: Regulatory information

See section 2

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Not applicable.

15.2. Chemical safety assessment

Not determined.

SECTION 16: Other information

The information provided in this Safety Data Sheet is based on sources, technical knowledge and legislation in force throughout Europe and Spain, and its accuracy cannot be guaranteed.

This information should not be considered as a guarantee of the product's properties; it is merely a description of the safety requirements.