

Safety information sheet

(According to 1907/2006/EC)

TRIANUM-G

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1 IDENTIFICATION OF THE SUBSTANCE OR THE PREPARATION, AND OF THE COMPANY/BUSINESS

- **Product name:** TRIANUM-G
- **Use of the substance or preparation:** Fungicide with plant growth promotion activity
- **Supplier:** Koppert BV
- **Address:** Veilingweg 14
2651 BE Berkel en Rodenrijs, The Netherlands
- **Telephone number / Fax:** +31 (0)10-514 04 44/ +31 (0)10-511 52 03
- **Information available from:** Marketing / Product management
- **Telephone number for emergencies:** +31 (0)10-514 04 44

2 IDENTIFICATION OF THE DANGERS

- **Danger category and abbreviation:** no symbol assigned
- **Dangers to the health of humans and the environment:** no risk expected
- **Classification system:** The classification corresponds with Regulation 1272/2008
- **Supplementary information:** Micro-organisms may have the potential to provoke sensitising reactions.

3 COMPOSITION AND INFORMATION ABOUT THE CONSTITUENTS

- **Active micro-organism:** Formulation of spores from *Trichoderma harzianum* Rifai strain T22 ($>1 \times 10^8$ spores/gram)
- **Others ingredients:** >98% inert carrier

4 FIRST-AID MEASURES

- **Symptoms /effects:** Exposure to the product does not cause acute symptoms
 - **In case of inhalation:** Move the person outside for fresh air; in the event of physical complaints arising, seek medical advice.
 - **After contact with skin:** Rinse the skin with soap and water. In the event of persistent skin irritation, seek medical advice.
 - **In case of contact with eyes:** Rinse eyes thoroughly with water for 15 minutes. Seek medical advice if irritation persists.
- If swallowed:** In the event of physical complaints arising, seek medical advice immediately.

5 FIRE-FIGHTING MEASURES

- **Suitable extinguishing agents:** CO₂, foam or water jet

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- | | |
|---|--|
| • Unsuitable extinguishing agents: | Not applicable |
| • Protective equipment: | Breathing apparatus and protective clothing. |
| • Supplementary information: | The product is non-flammable. |

6 ACCIDENTAL RELEASE MEASURES

- | | |
|-------------------------------------|---|
| • Personal precautions: | Wear protective clothing. See also Section 8. |
| • Environmental precautions: | No specific recommendations. |
| • Cleaning methods: | Cover up spillages of the product before carefully vacuuming it up. If necessary, remove the last residues with water. Dispense of rinsing water via the sewerage system. |
| • Supplementary information: | Can be mixed into the soil |

7 HANDLING AND STORAGE

- | | |
|---|---|
| • Handling | Prevent the formation of dust
Do not place in a warm environment or in direct sunlight. Read the label before use. |
| • Preventing fire and explosion: | No special measures required (see section 10)
The product is non-flammable. |
| • Storage: | Storage temperature: 4-10°C: Keep dry and in the dark in robust, closed original packaging. |

8 EXPOSURE CONTROLS AND PERSONAL PROTECTION

- | | |
|--|---|
| • Measures for the control of exposure: | The usual precautions as for chemicals must be taken into account.
Avoid contact with skin and eyes. |
| • Protection of the respiratory organs: | Wear respiratory protection. |
| • Protection of the hands: | Safety gloves. The material from which the gloves are made must be impermeable and resistant to the product. Choose glove material on the basis of the permeation time, degrees of permeability and breakdown rate. |
| • Protection of the eyes: | Close-fitting safety goggles. |
| • Protection of the skin: | Wear suitable protective clothing. |

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9 PHYSICAL AND CHEMICAL PROPERTIES

- **General information**
 - **Appearance:** Solid (granules)
 - **Colour:** Brown green
 - **Smell:** Earthy odor
 - **Formulation type:** GR Granuler
- **pH:** 6.64 (in 1% w/v solution in water)
- **Phase transitions**
 - **Melting point/range:** Not applicable
 - **Boiling point/range:** Not applicable
- **Flash point:** Not applicable
- **Flammability:** No spontaneous ignition
- **Explosive properties:** Non-explosive
- **Oxidising properties:** Non-oxidising
- **Relative density at 20°C:** 0.593 g/ml pour density; 0.642 g/ml tap density
- **Solubility in water:** Non-soluble in water, suspends in water

10 STABILITY AND REACTIVITY

- **Thermal decomposition / Conditions to be avoided:** Stable for 6 months when stored in the fridge (section 7).
- **Materials to be avoided:** Strong acids. Avoid contact with sources of heat
- **Dangerous reactions:** No dangerous reactions known
- **Dangerous decomposition products:** not applicable

11 TOXICOLOGICAL INFORMATION

- **Acute oral toxicity:** $> 1.0 \times 10^9$ CFU/animal (rat)
- **Acute pulmonary:** $> 5.8 \times 10^7$ CFU/animal (rat)
- **Acute intraperitoneal:** $> 4.9 \times 10^7$ CFU/animal (rat)
- **Intravenous:** $> 1.0 \times 10^7$ CFU/animal (rat)
- **Skin irritation:** Not irritant
- **Eyes irritation:** Not irritant
- **Chronic effects:** None of the components is known as carcinogenic; does not contain dangerous goods. Not classified by NTP, IARC or OSHA. Non infective and not pathogenic in rat.

12 ENVIRONMENTAL INFORMATION

- **Behaviour in environmental media:** Trichoderma occurs naturally in the soil.
- **Mobility and bio-accumulation potential:** Estimated half-life of conidia spores in water amounts to 5.5 weeks.

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- **Ecotoxic effects:**
- **Algae (72h. NOEC):** NOEC: $> 6.5 \times 10^7$ CFU/L
- **Daphnia (21d. NOEC):** NOEC: $> 6.0 \times 10^7$ CFU/L
- **Fish (30d. NOEC):** NOEC: $> 6.0 \times 10^7$ CFU/L
- **General information:** Neither acute nor chronic effects are known

13 INSTRUCTIONS FOR REMOVAL

- **Precautions:** Ingredients of Trianium do not raise concern for environment.
- **Disposal of product:** Remove in accordance with local regulations.
- **Packaging not cleaned:** Waste resulting from the use of this product can be disposed as normal waste, if properly cleaned with water

14 INFORMATION RELATING TO TRANSPORTATION

- **Transport information:** not classified in regard to transportation by ADR/RID, IMDG, IMO and IATA.

15 REGULATORY INFORMATION

- **Label name:** Trianium G
- **Symbols:** None
- **Risk phrases:** None
- **Safety recommendations:** P 280 A- Wear protective gloves
P284 – Wear respiratory protection
EUH 401 - To avoid risks to human health and the environment, comply with the instructions for use.
- **Supplementary regulations, restrictions and prohibitions:** All micro-organisms may have the potential to provoke sensitising reactions. To avoid risk for man and the environment, comply with instructions for use.

16 ADDITIONAL INFORMATION

Recommendations presented in this safety information sheet apply only to the product as originally supplied. If other ingredients are used in the processing of this product, the recommendations for the use and handling of that product must be verified. This document contains important information in order to ensure the safe storage, handling and use of this product. The information in this document must be brought to the attention of

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the safety/health/environmental advisor within your organisation. The information in this document must be made known to everyone whose work involves this product. The data is based on the current expertise and presents the health, safety and environmental aspects of this product. They form no guarantee of product properties.