

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product form	: Mixture
Product name	: T34 Biocontrol ®
Registration number	: MAPP 17290 (registration number in U.K.)
Group of products	: Wettable powder
Active substance	: <i>Trichoderma asperellum</i> strain T34
UFI code	: T000-A0PG-V001-290P

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

1.2.1. Relevant identified uses

Category of main use	: Plant protection product, professional use
Use of the substance/mixture	: Biofungicide

1.2.2. Uses advised against

See instructions on label

1.3. Details of the supplier of the safety data sheet

Manufacturer:

Biocontrol Technologies, S.L.
Avgda. Madrid, 215-217, entresòl A
08014 Barcelona,
Spain
Tel. +34-934091848
Email: biocontrol@biocontroltech.com

Marketing company:

Fargro Ltd.
Vinery Fields, Arundel Road
Poling, Arundel
West Sussex, BN18 9PY
Tel: 01903 721591
Email: info@fargro.co.uk

1.4. Emergency telephone number

Emergency number	: +44(0)1903 721591 (business hours)
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SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Sensitisation — Skin, Category 1 H317 Expert judgment

Full text of H statements : see section 16

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP) :



GHS07

Signal word (CLP)	: Warning
Hazard statements (CLP)	: H317 - May cause an allergic skin reaction
Precautionary statements (CLP)	: P260 - Do not breathe dust, spray P280 - Wear eye protection, face protection, protective clothing, protective gloves P302+P352 - IF ON SKIN: Wash with plenty of water P333+P313 - If skin irritation or rash occurs: Get medical advice/attention P363 - Wash contaminated clothing before reuse P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation
EUH-statements	: EUH401 - To avoid risks to human health and the environment, comply with the instructions for use

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2.3. Other hazards

Other hazards which do not result in classification : Micro-organisms may have the potential to provoke sensitising reactions.

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable (see point 3.2)

3.2. Mixture

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
<i>Trichoderma asperellum</i> strain T34	(CAS No) Not applicable (EC no) Not applicable (REACH-no) Not applicable (CIPAC No) 941	12	Not classified
Other non classified co-formulants	-	88	-

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures after inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing. In all cases of doubt, or if victim feels unwell seek medical attention.

First-aid measures after skin contact : Wash with plenty of soap and water. Remove contaminated clothes. If skin irritation occurs: Get medical advice/attention.

First-aid measures after eye contact : Immediately flush eyes thoroughly with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: get medical advice/attention.

First-aid measures after ingestion : Do NOT induce vomiting. Rinse mouth thoroughly with water. Do not give an unconscious person anything to drink. In all cases of doubt, or when symptoms persist, seek medical advice.

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

Symptoms/injuries after inhalation : Inhalation of dust may cause irritation of the respiratory system.

Symptoms/injuries after skin contact : May cause sensitisation by skin contact.

Symptoms/injuries after eye contact : Dusts are mechanical irritants.

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

Symptomatic treatment.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Unsuitable extinguishing media : None known.

5.2. Special hazards arising from the substance or mixture

Fire hazard : None known.

Explosion hazard : This product is not explosive.

Hazardous decomposition products in case of fire : Hazardous decomposition products may be released during prolonged heating like smokes, carbon monoxide and dioxide, silicon oxides.

5.3. Advice for firefighters

Firefighting instructions : Move undamaged containers from immediate hazard area if it can be done safely. Cool down the containers exposed to heat with a water spray. Evacuate area. Keep upwind.

Protective equipment for firefighters : Wear proper protective equipment. In case of fire: Wear self-contained breathing apparatus.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures : Avoid breathing dust, mist or spray. Provide adequate ventilation to minimize dust concentrations.

Measures in case of dust release : Mechanically ventilate the spillage area.

6.1.2. For emergency responders

Protective equipment : Wear protective gloves/protective clothing/eye protection/face protection. In case of fire: Wear self-contained breathing apparatus.

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Emergency procedures : Evacuate area. Provide adequate ventilation to minimize dust concentrations. Avoid breathing dust, mist or spray.

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

For containment : Avoid creating or spreading dust.
Methods for cleaning up : Use clean-up methods that avoid dust generation (vacuum wet). Use approved industrial vacuum cleaner for removal. Collect all waste in suitable and labelled containers and dispose according to local legislation.
Other information : Do not allow uncontrolled discharge of product into the environment. Relevant water authorities should be notified of any large spillage to water course or drain.

6.4. Reference to other sections

For further information refer to section 8: Exposure-controls/personal protection. For disposal of residues refer to section 13 : Disposal considerations.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Additional hazards when processed : Minimize generation of dust.
Precautions for safe handling : Provide adequate ventilation. Avoid creating or spreading dust. Where excessive dust may result, wear approved mask (see section 8.2 for details). Wear protective gloves/protective clothing.
Hygiene measures : Do not eat, drink or smoke when using this product. Handle in accordance with good industrial hygiene and safety practices. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in a cool dry place. Keep container tightly closed.
Storage temperature : If stored at 0-4°C the product maintains its viability for 2 years.
Heat and ignition sources : Keep away from open flames, hot surfaces and sources of ignition.
Prohibitions on mixed storage : Keep away from food, drink and animal feeding stuffs.

7.3. Specific end use(s)

Biological fungicide for agricultural use. See the label.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No information available.

8.2. Exposure controls

Appropriate engineering controls : Provide adequate ventilation to minimize dust concentrations. Mechanical ventilation is recommended.
Personal protective equipment : Gloves. Insufficient ventilation: wear respiratory protection. Protective goggles. Protective clothing.
Hand protection : Wear suitable gloves tested to EN374. Breakthrough times and swelling properties of the material must be taken into consideration
Eye protection : Eye protection, including both chemical splash goggles and face shield, must be worn when possibility exists for eye contact due to spraying liquid or airborne particles. DIN EN 166
Skin and body protection : Wear suitable protective clothing. DIN EN 14605. Boots
Respiratory protection : Disposable filtering facepiece respirator to at least EN149 FFP3 or equivalent.



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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Solid
Appearance	: Wettable powder.
Colour	: Greenish grey.
Odour	: Odourless.
Odour threshold	: No data available
pH	: 5,5 – 7 (1% aqueous suspension)
Relative evaporation rate (butyl acetate=1)	: Not applicable, solid
Melting point	: Not applicable, solid
Freezing point	: Not applicable, solid
Boiling point	: Not applicable, solid
Flash point	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: Not expected to be flammable on the basis of components
Vapour pressure	: Not applicable, solid
Relative vapour density at 20 °C	: No data available
Relative density	: 0.17 g/cm ³
Solubility	: Insoluble in water (highly suspensible).
Log Pow	: No data available
Viscosity, kinematic	: Not applicable, solid
Viscosity, dynamic	: Not applicable, solid
Explosive properties	: Not explosive as none of the components is classified as explosive or oxidizing.
Oxidising properties	: None of the components are classified for oxidizing properties.
Explosive limits	: Not applicable

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable under normal conditions.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

10.4. Conditions to avoid

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

Carbon oxides. Silicon oxides.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity	: <i>Trichoderma asperellum</i> strain T34 is non toxic, non allergenic and non pathogenic for mammals.
Skin corrosion/irritation	: Not irritating to skin
Serious eye damage/irritation	: Not irritating to eyes
Respiratory or skin sensitisation	: May cause an allergic skin reaction.
Germ cell mutagenicity	: It is not mutagenic
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
Specific target organ toxicity (single exposure)	: Not classified

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Specific target organ toxicity (repeated exposure) : Not classified

Aspiration hazard : Not classified

SECTION 12: Ecological information

12.1. Toxicity

Trichoderma asperellum strain T34 is non toxic for the fauna and flora and environmentally safety. It is not dangerous for bees, arthropods, earthworms, neither for aquatic organisms such as *Lemna*, *Daphnia* and fishes.

Moreover, *Trichoderma asperellum* strain T34 has been classified as exempt of residues (inclusion in the Annex IV of the Regulation (EC) No 396/2005, through the Regulation of the Commission (EU) 2015/896).

12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

No additional information available

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

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This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

12.6. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods : Waste resulting from the use of this product may be disposed of in accordance with the approved codes of practice for pesticide use or at an approved waste disposal facility. Consult the appropriate local waste disposal expert about waste disposal.

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

14.1. UN number

UN-No. (ADR) : Not regulated

UN-No. (IMDG) : Not regulated

UN-No. (IATA) : Not regulated

UN-No. (ADN) : Not regulated

UN-No. (RID) : Not regulated

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

Other information, restriction and prohibition regulations : Regulation (EC) No 1107/2009 of the European Parliament and of the Council of 21 October 2009 concerning the placing of plant protection products on the market and repealing Council Directives 79/117/EEC and 91/414/EEC.

COMMISSION REGULATION (EU) 2015/896 of 11 June 2015 amending Annex IV to Regulation (EC) No 396/2005 of the European Parliament and of the Council as regards maximum residue levels for *Trichoderma polysporum* strain IMI 206039, *Trichoderma asperellum* (formerly *T. harzianum*) strains ICC012, T25 and TV1, *Trichoderma atroviride* (formerly *T. harzianum*) strains IMI 206040 and T11, *Trichoderma harzianum* strains T-22 and ITEM 908, *Trichoderma gamsii* (formerly *T. viride*) strain ICC080, *Trichoderma asperellum* (strain T34), *Trichoderma atroviride* strain I-1237, geraniol, thymol, sucrose, ferric sulphate (iron (III) sulphate), ferrous sulphate (iron (II) sulphate) and folic acid in or on certain products.

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15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [CLP]

No chemical safety assessment has been carried out

SECTION 16: Other information

Abbreviations and acronyms:

SDS	Safety Data Sheet
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
OECD	Organisation for Economic Co-operation and Development
NOEC	No-Observed Effect Concentration
NOAEL	No-Observed Adverse Effect Level
NOAEC	No-Observed Adverse Effect Concentration
LOAEL	Lowest Observed Adverse Effect Level
LD50	Median lethal dose
LC50	Median lethal concentration
IMDG	International Maritime Dangerous Goods
IATA	International Air Transport Association
IARC	International Agency for Research on Cancer
EC50	Median effective concentration
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
BCF	Bioconcentration factor
ATE	Acute Toxicity Estimate
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
PNEC	Predicted No-Effect Concentration
vPvB	Very Persistent and Very Bioaccumulative
PBT	Persistent Bioaccumulative Toxic
DNEL	Derived-No Effect Level

Other information

: This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product. It is the user's responsibility to take mentioned precaution measures and ensure that this information is complete and sufficient for the use of this product.

Full text of H- and EUH-statements:

H317	May cause an allergic skin reaction
EUH401	To avoid risks to human health and the environment, comply with the instructions for use

SDS EU (REACH Annex II)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product