

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

1.1. Product identifier

Trade name : TRICHOSYM BIO
Name : Trichosym Bio
Product code : -

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

1.2.1. Relevant identified uses

Main use category : Bioinoculant

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Symborg S.L.
Campus de Espinardo, Nº7. Edificio CEEIM.
30100 - Espinardo - - Spain
T + 34 968 899 250
symborg@symborg.es

1.4. Emergency telephone number

Emergency number : 112

País	Organismo/Empresa	Dirección	Número de emergencia
ESPAÑA	Servicio de Información Toxicológica Instituto Nacional de Toxicología, Departamento de Madrid	Calle Luis Cabrera 9 E-28002 Madrid	+34 91 562 04 20

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

It is not a hazardous mix according to Regulation (EC) No. 1272/2008

Full text of H-phrases: see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

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

Hazard pictograms (CLP) : No pictogram assigned
Signal word (CLP) : No Signal word assigned
Hazardous ingredients : No contains hazardous ingredients
Hazard statements (CLP) : No Hazard statements assigned
Precautionary statements (CLP) : No precautionary statements assigned
EUH phrases : No EUH phrases assigned

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

3.2. Mixture

Name	Classification according to Regulation (EC) No. 1272/2008 [CLP]
<i>Trichoderma harzianum</i> T78	It is not a hazardous mix according to Regulation (EC) No. 1272/2008

Full text of R- and H-phrases: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general	: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
First-aid measures after inhalation	: Move the affected person to the fresh air. If not breathing, give artificial respiration. Call a doctor.
First-aid measures after skin contact	: Remove contaminated clothes. After contact with skin, wash immediately with plenty of water.
First-aid measures after eye contact	: Wash with plenty of water (during 20 minutes minimum) with eyes wide open after taking off soft contact lenses and immediately take medical advice.
First-aid measures after ingestion	: Rinse mouth. Immediately call a POISON CENTER or doctor/physician.

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

No additional information available

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

No additional information available

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.

5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in case of fire : Carbon dioxide. Carbon monoxide.

5.3. Advice for firefighters

Firefighting instructions	: Appropriate self-contained breathing apparatus may be required.
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.
Other information	: Do not allow material to contaminate surface water system.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Protective equipment	: Wear suitable protective clothing, gloves and eye or face protection. Wear eye protection. Personal protective equipment. EN ISO 20345.
Emergency procedures	: Evacuate personnel to a safe area.

6.1.2. For emergency responders

Protective equipment	: Wear suitable hand, body and head protection.
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6.2. Environmental precautions

Danger of pollution of drinking water when product enters the soil. Do not allow run-off from fire-fighting to enter drains or water courses. Notify authorities if liquid enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

For containment	: Label the container and provide warning statements to prevent any contact.
Methods for cleaning up	: Soak up with inert absorbent material (for example sand, sawdust, a universal binder, silica gel). Clean spills promptly. Wash contaminated area with large amounts of water.

6.4. Reference to other sections

Reference to other sections (8, 13).

SECTION 7: Handling and storage

7.1. Precautions for safe handling

- Additional hazards when processed : Do not allow run-off from fire fighting to enter drains or water courses. Do not contaminate water with the product or its container (Do not clean application equipment near surface water/Avoid contamination via drains from farmyards and roads).
- Precautions for safe handling : Avoid contact with skin and eyes. Do not eat, drink or smoke in areas where product is used. Wash hands and other exposed areas with soap and water before leaving work. Remove contaminated clothing and shoes. Wash clothing and equipment after handling.

7.2. Conditions for safe storage, including any incompatibilities

- Technical measures : Keep only in the original container in a cool well ventilated place. Store in a dry, cool area. Protect from light.
- Storage conditions : When not empty dispose of this container at hazardous or special waste collection point. Continue to observe all precautions.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Exposure controls

- Hand protection : Chemical resistant gloves.
- 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.
- Respiratory protection : Extra personal protection: P2 filter respirator for harmful particles. Extra personal protection: P3 filter respirator for toxic particles.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

- Physical state : Liquid
- Appearance : Aquous
- Colour : Dark green
- Odour : Inodore
- Odour threshold : No data available
- pH : 6.4
- pH solution : 100%
- Relative evaporation rate (butylacetate=1) : No data available
- Melting point : No data available
- Freezing point : No data available
- Boiling point : No data available
- Flash point : No data available
- Auto-ignition temperature : No data available
- Decomposition temperature : No data available
- Flammability (solid, gas) : Non flammable
- Vapour pressure : No data available
- Relative vapour density at 20 °C : No data available
- Relative density : 1.0 g/ml
- Solubility : No data available
- Log Pow : No data available
- Viscosity, kinematic : No data available
- Viscosity, dynamic : No data available
- Explosive properties : Product is not explosive.
- Oxidising properties : Not classified.
- Explosive limits : No data available



9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available

10.2. Chemical stability

The product is stable at normal handling and storage conditions.

10.3. Possibility of hazardous reactions

No additional information available

10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

No applicable

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified.

<i>Trichoderma harzianum</i>	
LD ₅₀ oral rat	>1 x 10 ⁷ cfu/animal (based on other <i>Trichoderma harzianum</i> strains)
LD ₅₀ dermal rat	>1 x 10 ⁷ cfu/animal (based on other <i>Trichoderma harzianum</i> strains)
LC ₅₀ inhalation rat (mg/l)	>1.2 x 10 ⁷ cfu/animal (based on other <i>Trichoderma harzianum</i> strains)

SECTION 12: Ecological information

12.1. Toxicity

<i>Trichoderma harzianum</i>	
Algae - NOEC (72 hours)	>6.5 x 10 ⁷ ufc/l (based on other <i>Trichoderma harzianum</i> strains)
Daphnia - NOEC (21 days)	>6.0 x 10 ⁷ ufc/l (based on other <i>Trichoderma harzianum</i> strains)
Fish - NOEC (30 days)	>6.0 x 10 ⁷ ufc/l (based on other <i>Trichoderma harzianum</i> strains)

12.2. Persistence and degradability

<i>Trichoderma harzianum</i>	
Persistence and degradability	Low, half-life 2 years

12.3. Bioaccumulative potential

<i>Trichoderma harzianum</i>	
Bioaccumulation	No bioaccumulative

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Regional legislation (waste) : Disposal must be done according to official regulations.

SECTION 14: Transport information

In accordance with ADR / IMDG / IATA

ADR	IMDG	IATA
NO ENVIRONMENTALLY HAZARDOUS SUBSTANCE	NO ENVIRONMENTALLY HAZARDOUS SUBSTANCE	NO ENVIRONMENTALLY HAZARDOUS SUBSTANCE
Dangerous for the environment : NO	Dangerous for the environment : NO Marine pollutant : NO	Dangerous for the environment : NO

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

It is not a hazardous mix according to Regulation (EC) No. 1272/2008

15.1.2. National regulations

Refer to protective measures listed in Sections 7 and 8

15.2. Chemical safety assessment

Relevant national legislation applicable may be found in the national MSDS.

SECTION 16: Other information

Full text of R-, H- and EUH-phrases:

Other data

Revision date:	05.08.2016
Version:	1.0/US
Replaces:	14.01.2016
Indication of changes:	Classification – Section 2.2

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