

MATERIAL SAFETY DATA SHEET (MSDS)

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Revision: 0

1. Identification of the substance/mixture and of the company/undertaking

Product name TourTurf Fungi Thatch Degrader FTD (8593)

REACH registration notes This Mixture is exempt from REACH registration according to Regulation (EC) No. 1907/2006 (REACH) All raw materials used in the mixture are REACH registered where necessary.

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

Identified uses Powdered biological product for the treatment of organic debris associated with turf cultivation

1.3. Details of the supplier of the safety data sheet

Supplier E. Marker A/S, Okslundvej 8, Bov, DK-6330 Padborg

1.4. Emergency telephone number

Emergency telephone +45 74 67 08 08 Office Hours 8:00-16:00 weekdays only

2. Hazards Identification

2.1. Classification of the substance or mixture Classification (EC 1272/2008)

Classification (EC 1272/2008) This material is not classified as hazardous according to Regulation 1272/2008/EC as amended on classification, labelling and packaging of substances and mixtures.

Physical hazards Not applicable

Health hazards Not applicable

Environmental hazards Not applicable

2.2. Label elements Labelling according to 1272/2008/EC	No Hazard Pictograms, Signal words, Hazard statements or Precautionary statements required.
2.3. Other hazards	May cause mechanical irritation of the eye. Repeated inhalation of large amounts of respirable dust may irritate lungs and airways

3. Composition/information on ingredients

3.1 Substances	Not applicable. Material is a mixture of inorganic salts and cereal-based organic carrier
3.2. Mixtures	No hazardous ingredients declared according to Regulation (EC) No 1272/2008

4. First aid measures

4.1. Description of first aid measures

Eye Contact	Rinse immediately with water holding the eyelids open.
Skin Contact	Wash off with soap and water. No need for first aid is anticipated.
Inhalation	Move the exposed person to fresh air
Ingestion	Rinse mouth thoroughly. No need for first aid is anticipated. Seek medical attention if any symptoms persist.

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

May cause mechanical irritation of the eye. Repeated inhalation of large amounts of respirable dust may irritate lungs and airways.

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

No special treatment required

5. Firefighting measures

5.1. Extinguishing media	Product is a powder and is not flammable. Use extinguishing media appropriate to the surrounding fire conditions.
5.2. Special hazards arising from the substance or mixture	Product is a powder that is not expected to burn or create special hazards
5.3. Advice for firefighters	Wear full protective clothing and suitable respiratory equipment when necessary

6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions	No special protective clothing required.
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6.2. Environmental precautions	Do not allow large amounts (i.e. >20 kg) to enter drains undiluted (it may cause physical blockages).
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6.3. Methods and material for containment and cleaning up	Small spillages (<20 kg) can be washed to drain with water. For larger spillages, sweep up and transfer to suitable, labelled containers for disposal. Clean spillage area thoroughly with plenty of water.
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6.4. Reference to other sections	For personal protection, see Section 8. For waste disposal, see Section 13
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7. Handling and storage

7.1. Precautions for safe handling

Wash thoroughly after handling.

7.2. Conditions for safe storage, including any incompatibilities	Keep in a cool dry, well-ventilated area. Keep containers tightly closed. Store in correctly labelled containers
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7.3. Specific end use(s)	No exposure scenario currently available
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8. Exposure Controls/ personal protection

8.1 Control parameters No exposure limits applicable to components in this product

8.2. Exposure Control

Appropriate engineering controls No special requirements

Respiratory protection Not required

Hand protection No chemical resistance gloves required

Eye protection None required

Protective equipment No special protective clothing required

Environmental measures Do not allow large amounts of product to enter open water courses or surface water

9. Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Appearance White powder

Odour Slight

Odour threshold Not determined

pH (of 1% solution) 7-8

Melting point Not applicable

Initial boiling point and range Not applicable

Flash point Not applicable

Evaporation rate	Contains no volatile material
Flammability (solid, gas)	Not a flammable solid
Upper/lower flammability or explosive limits	Not applicable, see above
Vapour pressure	No vapour expected
Vapour density	Not applicable, see above
Relative density	1.01
Solubilitie(s)	Freely soluble in water
Partition coefficient n-octanol/water	Not applicable, predominantly a mixture of organic and inorganic solids
Auto-ignition temperature	Not applicable, predominantly a mixture of organic and inorganic solids
Decomposition Temperature	Not applicable, predominantly a mixture of organic and inorganic solids
Viscosity	Not applicable, product is a powder
Explosive properties	No ingredients with explosive properties
Oxidising properties	No ingredients with oxidising properties
9.2. Other Information	
Other Information	None available

10. Stability and reactivity

10.1. Reactivity	No specific hazard
10.2. Chemical stability	Stable under normal conditions
10.3. Possibility of hazardous reactions	No hazardous reactions are expected
10.4. Conditions to avoid	Not determined
10.5. Incompatible materials	None known
10.6. Hazardous decomposition products	None known

11. Toxicological information

11.1. Information on toxicological effects

Acute toxicity	Contains no toxic ingredients and therefore no ATE can be calculated. The microorganisms in this product are all Group 1 (i.e. considered unlikely to cause human disease) according to EU Directive 2000/54/EC and related legislation.
Skin corrosion/irritation	Mixture not classified as corrosive to skin or causing skin irritation
Serious eye damage/irritation	Mixture not classified as causing serious eye damage or irritation
Respiratory sensitisation	Does not contain ingredients classified as respiratory or skin sensitizers.
Skin sensitisation	Does not contain ingredients classified as respiratory or skin sensitizers.
Germ cell mutagenicity	Does not contain ingredients that are known germ cell mutagens
Carcinogenicity	Does not contain ingredients that are known carcinogens
Reproductive toxicity - fertility	Does not contain any substances known to be toxic to reproduction

Specific target organ toxicity - single exposure STOT - single exposure	Does not contain ingredients that are known to cause single target organ toxicity with single exposure
Specific target organ toxicity - repeated exposure STOT - repeated exposure	Does not contain ingredients that are known to cause single target organ toxicity with repeated exposure
Aspiration hazard	Does not contain ingredients that are known to cause aspiration hazards

12. Ecological Information

12.1. Toxicity	Does not contain ingredients that are toxic or harmful to the aquatic environment, so no classification of mixture is required for acute or chronic effects.
12.2. Persistence and degradability	Product is predominantly a mixture of an inert inorganic material with a little cereal based organic carrier and given the nature of the ingredients and their concentration in the mixture, no issues with persistence or degradability are expected.
12.3. Bioaccumulative potential	Given the classification and environmental behaviour information on the ingredients and their concentration in the mixture, product is not expected to bioaccumulate
12.4. Mobility in soil	Product is partially soluble and freely dispersible in water: Not expected to be retained in soil to any significant extent
12.5. Results of PBT and vPvB assessment	Not anticipated to be PBT or vPvB
12.6. Other adverse effects	None known

13. Disposal considerations

13.1. Waste treatment methods	Small quantities of product (up to 20kg on any one occasion) can be disposed of to drain with a 10 times dilution with water. Small quantities of product (<20kg) can also be disposed of with normal refuse.
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14. Transport information

General	The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID)
14.1. UN number	Not applicable
14.2. UN proper shipping name	Not applicable
14.3. Transport hazard class(es)	Not applicable
14.4. Packing group	Not applicable
14.5. Environmental hazards	
Environmentally hazardous substance/marine pollutant	Not applicable
14.6. Special precautions for user	Not applicable
14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable

15. Regulatory Information

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

No known regulations or restrictions exist in EU Member states

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

16. Other Information

Revision comments

This SDS has been created to comply with the full implementation of the CLP Regulation (EC) No 1272/2008, namely the classification of ingredients and preparations using the new GHS/CLP symbols and phrases and communication of classification, hazards and advice according to the new rules.

Method used to classify

Mixture has been classified by reference to information on ingredients.

Note

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.