

Safety Data Sheet

TourTurf (FS) 13-0-7

Issued: 11/01/2021

Version: 1.0.0

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

1.1. Product identifier

Trade name: TourTurf (FS) 13-0-7

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

Recommended uses: Fertiliser.

1.3. Details of the supplier of the safety data sheet

Supplier

Company: E. Marker
Address: Okslundvej 8
Bov
Zip code: 6330
City: Padborg
Country: DENMARK
Phone: 74 67 08 08
Homepage: www.emarker.dk

1.4. Emergency Telephone Number

Members of the public: 111 (NHS 111 (Scotland: NHS 24)) The emergency telephone is open 24 hours.

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

CLP-classification: The product shall not be classified as hazardous according to the classification and labeling rules for substance and mixtures.

Most serious harmful effects: May cause slight irritation to the skin and eyes.

2.2. Label elements

Supplemental information

EUH208 Contains Iron (II) sulfate. May produce an allergic reaction.
EUH210 Safety data sheet available on request.

2.3. Other hazards

Assessment to determine PBT and vPvB has not been made.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Substance	CAS No	EC No	REACH Reg. No.	Concentration	Notes	CLP-classification
Iron (II) sulfate	7720-78-7	231-753-5	01-2119513203-57	0.1 - 1%		Acute Tox. 4;H302 Skin Irrit. 2;H315 Skin Sens. 1;H317 Eye Irrit. 2;H319

Please see section 16 for the full text of H-phrases.

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SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation: Seek fresh air. Seek medical advice in case of breathing difficulties.

Ingestion: Wash out mouth thoroughly and drink 1-2 glasses of water in small sips. Seek medical advice in case of discomfort.

Skin contact: Remove contaminated clothing. Wash skin with soap and water. Seek medical advice in case of persistent discomfort.

Eye contact: Flush with water (preferably using eye wash equipment) until irritation subsides. Seek medical advice if symptoms persist.

General: When obtaining medical advice, show the safety data sheet or label.

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

May cause slight irritation to the skin and eyes. The product contains small amounts of Iron (II) sulfate. Persons with a known allergy may exhibit an allergic response to the product.

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

Treat symptoms. No special immediate treatment required.

SECTION 5: Fire-fighting measures

5.1. Extinguishing media

Suitable extinguishing media: Extinguish with powder, foam or water mist. Use water or water mist to cool non-ignited stock.

Unsuitable extinguishing media: Do not use water stream, as it may spread the fire.

5.2. Special hazards arising from the substance or mixture

The product decomposes when combusted and the following toxic gases can be formed: Nitrous gases.

5.3. Advice for fire-fighters

Move containers from danger area if it can be done without risk. Avoid inhalation of vapour and flue gases - seek fresh air. Wear Self-Contained Breathing Apparatus (SCBA) with chemical resistant gloves.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel: Provide good ventilation. Wear gloves. Wear safety goggles if there is a risk of eye splash.

For emergency responders: In addition to the above: Normal protective clothing equivalent to EN 469 is recommended.

6.2. Environmental precautions

Prevent spillage from entering drains and/or surface water.

6.3. Methods and material for containment and cleaning up

Contain and absorb spill with sand or other absorbent material and transfer to suitable waste containers. Wipe up minor spills with a cloth.

6.4. Reference to other sections

See section 8 for type of protective equipment.

See section 13 for instructions on disposal.

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SECTION 7: Handling and storage

7.1. Precautions for safe handling

Running water and eye wash equipment must be available. Wash hands before breaks, before using restroom facilities, and at the end of work.

7.2. Conditions for safe storage, including any incompatibilities

Store safely, out of reach of children and away from food, animal feeding stuffs, medicines, etc. Store in a cool, dry place. Avoid direct sunlight. Do not store with the following: Alkalies/ Oxidisers.

7.3. Specific end use(s)

No special uses in addition to identified uses in 1.2.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limit: Contains no substances subject to reporting requirements

Measuring methods: Compliance with the stated occupational exposure limits may be checked by occupational hygiene measurements.

Legal basis: EH40/2005 Workplace exposure limits. Last amended January 2020.

PNEC

Iron (II) sulfate, cas-no 7720-78-7					
Exposure	Value	Assessment Factor	Extrapolation Method	Note	
PNEC soil	49500 mg/kg				
PNEC STP (wastewater-treatment facilities)	500 mg/l				

DNEL - workers

Iron (II) sulfate, cas-no 7720-78-7					
Exposure	Value	Assessment Factor	Dose Descriptor	Main Impact Parameter	Note
Dermal DNEL (acute/short-term exposure - systemic effects)	0,57 mg/kg				
Inhalation DNEL (acute/short-term exposure - systemic effects)	2 mg/m³				
Dermal DNEL (long-term exposure - systemic effects)	0,57 mg/kg				
Inhalation DNEL (long-term exposure - systemic effects)	2 mg/m³				

DNEL - general population

Iron (II) sulfate, cas-no 7720-78-7					
Exposure	Value	Assessment Factor	Dose Descriptor	Main Impact Parameter	Note

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Dermal DNEL (acute/short-term exposure - systemic effects)	0,29 mg/kg				
Inhalation DNEL (acute/short-term exposure - systemic effects)	0,5 mg/m ³				
Oral DNEL (acute/short-term exposure - systemic effects)	0,29 mg/kg				
Dermal DNEL (long-term exposure - systemic effects)	0,29 mg/kg				
Inhalation DNEL (long-term exposure - systemic effects)	0,5 mg/m ³				
Oral DNEL (long-term exposure - systemic effects)	0,29 mg/kg				

8.2. Exposure controls

Appropriate engineering controls:

Personal protective equipment, eye/face protection: Wear safety goggles if there is a risk of eye splash. Eye protection must conform to EN 166.

Personal protective equipment, hand protection: Wear gloves. Type of material: Nitrile rubber. Breakthrough time has not been determined for the product. Change gloves often. Gloves must conform to EN 374. The suitability and durability of a glove is dependant on usage, e.g. frequency and duration of contact, glove material thickness, functionality and chemical resistance. Always seek advice from the glove supplier.

Personal protective equipment, respiratory protection: Not required.

Environmental exposure controls: Ensure compliance with local regulations for emissions.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Parameter	Value/unit
State	Liquid
Colour	Dark blue
Odour	Odourless
Solubility	Soluble in the following: Water.
Explosive properties	No data
Oxidising properties	No data

Parameter	Value/unit	Remarks
pH (solution for use)	No data	
pH (concentrate)	2.2	
Melting point	No data	
Freezing point	No data	
Initial boiling point and boiling range	No data	
Flash Point	No data	

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Evaporation rate	No data	
Flammability (solid, gas)	No data	
Flammability limits	No data	
Explosion limits	No data	
Vapour pressure	No data	
Vapour density	No data	
Relative density	No data	
Partition coefficient n-octanol/water	No data	
Auto-ignition temperature	No data	
Decomposition temperature	No data	
Viscosity	No data	
Odour threshold	No data	

9.2 Other information

Other Information: None.

SECTION 10: Stability and reactivity

10.1. Reactivity

Reacts with the following: Alkalies/ Oxidisers.

10.2. Chemical stability

The product is stable when used in accordance with the supplier's directions.

10.3. Possibility of hazardous reactions

None known.

10.4. Conditions to avoid

Do not expose to heat (e.g. sunlight).

10.5. Incompatible materials

Alkalies/ Oxidisers.

10.6. Hazardous decomposition products

The product decomposes when combusted or heated to high temperatures and the following toxic gases can be formed:
Nitrous gases.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity - oral

Iron (II) sulfate, cas-no 7720-78-7

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
Rat	LD50		450mg/kg			

The product does not have to be classified. Based on existing data, the classification criteria are deemed not to have been met. Ingestion of large quantities may cause discomfort.

Acute toxicity - dermal

Iron (II) sulfate, cas-no 7720-78-7

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
Unknown	LD50		> 2000			

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The product does not have to be classified. Based on existing data, the classification criteria are deemed not to have been met.

Acute toxicity - inhalation:	The product does not have to be classified. Test data are not available.
Skin corrosion/irritation:	The product does not have to be classified. Test data are not available. May cause slight irritation.
Serious eye damage/eye irritation:	The product does not have to be classified. Test data are not available. May cause eye irritation.
Respiratory sensitisation or skin sensitisation:	The product does not have to be classified. Test data are not available. The product contains small amounts of Iron (II) sulfate. Persons with a known allergy may exhibit an allergic response to the product.
Germ cell mutagenicity:	The product does not have to be classified. Test data are not available.
Carcinogenic properties:	The product does not have to be classified. Test data are not available.
Reproductive toxicity:	The product does not have to be classified. Test data are not available.
Single STOT exposure:	The product does not have to be classified. Test data are not available.
Repeated STOT exposure:	The product does not have to be classified. Test data are not available.
Aspiration hazard:	The product does not have to be classified. Test data are not available.
Other toxicological effects:	None known.

SECTION 12: Ecological information

12.1. Toxicity

Iron (II) sulfate, cas-no 7720-78-7

Organism	Species	Exposure time	Test Type	Value	Conclusion	Test method	Source
Fish	Oryzias latipes	96 h	96hLC50	> 67mg/l			
Fish	Oncorhynchus mykiss	96 h	96hLC50	17mg/l			
Crustacea	Daphnia magna	48 h	48hEC50	1mg/l			
Algae	Pseudokirchneriella subcapitata	72 h	72hEC50	18mg/l			
Bacteria	Pseudomonas putida	24 h	EC0	100mg/l			

The product does not have to be classified. Based on existing data, the classification criteria are deemed not to have been met.

12.2. Persistence and degradability

Test data are not available.

12.3. Bioaccumulative potential

Test data are not available.

12.4. Mobility in soil

Test data are not available.

12.5. Results of PBT and vPvB assessment

No assessment has been made.

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12.6. Other adverse effects

None known.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Avoid discharge to drain or surface water.

If this product as supplied becomes a waste, it does not meet the criteria of a hazardous waste (Dir. 2008/98/EU). Disposal should be in accordance with applicable regional, national and local laws and regulations. Local regulations may be more stringent than regional or national requirements.

Empty, cleansed packaging should be disposed of for recycling. Uncleansed packaging is to be disposed of via the local waste-removal scheme.

Category of waste: EWC code: Depends on line of business and use, for instance 02 01 09 agrochemical waste other than those mentioned in 02 01 08
Absorbent/cloth contaminated with the product: EWC code: 15 02 03 Absorbents, filter materials, wiping cloths and protective clothing other than those mentioned in 15 02 02.

SECTION 14: Transport information

14.1. UN-No.:	Not applicable.	14.4. Packing group:	Not applicable.
14.2. UN proper shipping name:	Not applicable.	14.5. Environmental hazards:	Not applicable.
14.3. Transport hazard class(es):	Not applicable.		

14.6. Special precautions for user

None.

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Not applicable.

SECTION 15: Regulatory information

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

Special Provisions:

None.

15.2. Chemical Safety Assessment

REACH Reg. No.	Substance name
01-2119513203-57	Iron (II) sulfate

SECTION 16: Other information

Version history and indication of changes

Version	Revision date	Responsible	Changes
1.0.0	11/01/2021	Bureau Veritas HSE / MPE	New

Abbreviations:

PBT: Persistent, Bioaccumulative and Toxic
STOT: Specific Target Organ Toxicity
vPvB: Very Persistent and Very Bioaccumulative

Other Information:

This safety data sheet has been prepared for and applies to this product only. It is based on our current knowledge and the information that the supplier was able to provide about the

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product at the time of preparation. The safety data sheet complies with applicable law on preparation of safety data sheets in accordance with 1907/2006/EC (REACH) as subsequently changed.

Training advice: A thorough knowledge of this safety data sheet should be a prerequisite condition.

Classification method: Calculation based on the hazards of the known components.

List of relevant H-statements

H302	Harmful if swallowed.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.

SDS is prepared by

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