

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

Identification of the substance or preparation

Product name: Evolution 8-0-0

Use of the Substance/Preparation

Recommended use: For use only as a horticultural turf fertilizer.

Company/Undertaking Identification See address on bag.

2. HAZARDS IDENTIFICATION

Classification

The product is non-dangerous in accordance with Directive 1999/45/EC

Most important hazards

None

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature of the preparation

Components	CAS-No	Weight %	EC-No.	Classification
Iron sulphate, FeSO ₄ +1H ₂ O	7720-78-7	5 - 10%	231-753-5	Xn;R22
Sand	14808-60-7	> 25%	238-878-4	NE
Talc	14807-96-6	1 - 5%	N.E.	NE
Magnesite, Mg(CO ₃) ₂	546-93-0	1 - 5%	208-915-9	NE

NE = Non-Established

For the full text of the R phrases mentioned in this Section, see Section 16

4. FIRST AID MEASURES

General advice: If you feel unwell, seek medical advice (show the label where possible).

Ingestion: Rinse mouth. If symptoms persist, call a physician.

Inhalation: Move to fresh air.

Skin contact: Wash off immediately with soap and plenty of water.

Eye contact: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If symptoms persist, call a physician.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media:

Coordinate fire extinguishing measures to fire in surrounding area

Unsuitable extinguishing media:

Not applicable

Special exposure hazards arising from the substance or preparation itself, its combustion products, or released gases:

Danger of toxic gases in smoke in case of fire

Special protective equipment for firefighters:

Use personal protective equipment. Self-contained breathing apparatus and suitable protective clothing.

Specific methods:

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions:

Use personal protective equipment.

Environmental precautions:

Do not contaminate water. Prevent product from entering drains.

Methods for cleaning up:

Avoid dust formation. Sweep up and shovel into suitable containers for disposal.

7. HANDLING AND STORAGE

Handling:

Technical measures/precautions:

Avoid dust formation. Ensure adequate ventilation.

Safe handling advice:

Handle in accordance with good industrial hygiene and safety practice. When using, do not eat, drink or smoke. Wash hands and exposed skin after use / handling.

Storage:

Technical measures/storage conditions:

Store in original container. Keep in a dry, cool and well-ventilated place.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering measures to reduce exposure:

Ensure adequate ventilation.

Occupational exposure controls

Personal protective equipment

Respiratory protection:

No information available

Hand protection:

Protective gloves. Nitrile rubber.

Eye/face protection

Safety glasses.

Skin and body protection:

Lightweight protective clothing.

Hygiene measures

General industrial hygiene practice.

Exposure limit values

Iron sulphate, FeSO₄·1H₂O

Belgium - 8 Hr VLE	1 mg/m ³
Finland - Occupational Exposure Limits - 8 hour	1 mg/m ³
Netherlands - OEL - MACs:	1 mg/m ³
Norway - 8 h:	0.01 mg/m ³
Portugal - TWAs	1 mg/m ³ TWA
Spain - Valores Limite Ambientales - VLE	1 mg/m ³ VLA-ED
UK EH40 WEL:	LTEL (8 hr TWA) 1 mg/m ³ STEL (15 min) 2mg/m ³

Sand

Belgium - 8 Hr VLE	0.1 mg/m ³ TWA
Finland - Occupational Exposure Limits - 8 hour	0.5 mg/m ³ TWA
France INRS (VME)	0.1 mg/m ³ VME
Netherlands - OEL - MACs:	0.075 mg/m ³ TWA
Norway - 8 h:	0.1 mg/m ³ TWA
	0.3 mg/m ³ TWA
Portugal - TWAs	0.025 mg/m ³ TWA
Spain - Valores Limite Ambientales - VLE	0.1 mg/m ³ VLA-ED
Sweden - OEL - 8 Hour	0.1 mg/m ³ LLV
UK EH40 WEL:	LTEL (8 Hr) 6 mg/m ³ (total inhalable dust) STEL (15 min) 2.4 mg/m ³ (total respirable dust)

Talc

Belgium - 8 Hr VLE	2 mg/m ³ TWA
Czech Republic OEL	= 10 mg/m ³ TWA = 2.0 mg/m ³ TWA
Finland - Occupational Exposure Limits - 8 hour	0.5 fibers/cm ³ TWA
	5 mg/m ³ TWA
Germany TRGS900:	2 A mg/m ³
Netherlands - OEL - MACs:	0.25 mg/m ³ TWA
Portugal - TWAs	2 mg/m ³ TWA
Spain - Valores Limite Ambientales - VLE	2 mg/m ³ VLA-ED
Sweden - OEL - 8 Hour	1 mg/m ³ LLV
	2 mg/m ³ LLV
UK EH40 WEL:	1 mg/m ³ TWA

Magnesite, Mg(CO₃)₂

Belgium - 8 Hr VLE	10 mg/m ³ TWA
France INRS (VME)	10 mg/m ³ VME
Spain - Valores Limite Ambientales - VLE	10 mg/m ³ VLA-ED
UK EH40 WEL:	LTEL (8hr TWA) 10mg/m ³

9. PHYSICAL AND CHEMICAL PROPERTIES

General Information

Physical State:	Solid
Appearance:	Granular
Color:	No information available
Odor:	No information available

Important Health Safety and Environmental Information

Other information

10. STABILITY AND REACTIVITY

Stability:	Stable under recommended storage conditions.
Conditions to avoid:	None known.
Materials to avoid:	None known.
Hazardous decomposition products:	No decomposition if stored normally

11. TOXICOLOGICAL INFORMATION

Component information

Iron sulphate, FeSO₄·1H₂O
LD50/oral/rat = 1389 mg/kg

Product information

Local effects

Skin effects:	No information available.
Eye effects:	No information available.
Inhalation:	No information available.
Ingestion:	No information available.

12. ECOLOGICAL INFORMATION

Product information

Aquatic toxicity: No information available.

Component information

Iron sulphate, FeSO₄·1H₂O
Ecotoxicity effects

EC50/48h/daphnia = >100mg/l
LC50/96h/rainbow trout = >72.5mg/l (6d)
EC50/72h/algae = 22mg/l

13. DISPOSAL CONSIDERATIONS

Waste Disposal Methods: Do not empty into drains. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of in accordance with local regulations and national regulations.

Contaminated packaging: Do not re-use container for any other purpose and dispose of safely. .

14. TRANSPORT INFORMATION

Product information

Physical State: Solid

ADR/RID

UN-No: Not classified for transport

IATA

UN-No: Not classified for transport

IMO / IMDG

UN-No: Not classified for transport

15. REGULATORY INFORMATION

Indication of danger:

Not dangerous.
To avoid risks to man and the environment, comply with the instructions for use.

Registration number UK/Eire

Not applicable

16. OTHER INFORMATION

Text of R Phrases mentioned in Section 3

R22 - Harmful if swallowed.

Declaration for 8+0+0+Mg+Fe:

FERTILIZER

Nitrogenous fertiliser (8-0-0) containing Magnesium with Iron
Nitrogen (N) total 8.0%
Magnesium oxide (MgO) 3.0% (1.8% Mg)
Iron (Fe) 3.0%