Evolution^2 12+0+9 is a Mini-granular Phosphate-free compound fertilizer for outfield and fairway use. The balanced NK analysis promotes wear-resistant, drought-resistant and disease-resistant turf.

How to apply	Apply evenly avoiding overlapped or missed areas, using a suitable calibrated distributor or by hand. If no rain falls during the 48 hours after application, irrigate the treated area thoroughly. Do not apply in frosty weather or hot, dry conditions.
Rate to apply	Apply at a rate of 35 -50g per sq. m Area treated by a 20kg bag – 400 - 571sq.m

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

Identification of the substance or preparation

Product name: **Evolution 12-0-9**

Use of the Substance/Preparation

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

Company/Undertaking Identification See address on the 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, FeSO4+1H2O	7720-78-7	1 - 5%	231-753-5	Xn;R22

Components	CAS-No	Weight %	EC-No.	Classification
Magnesite, Mg(CO3)2	546-93-0	1 - 5%	208-915-9	NE
Talc	14807-96-6	1 - 5%	N.E.	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.

Incompatible products: No information available

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

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

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/cm3 TWA 5 mg/m^3 TWA
Germany TRGS900:	2 A mg/m³
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/m³ TWA

9. PHYSICAL AND CHEMICAL PROPERTIES

General Information

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

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

Text of R Phrases mentioned in Section 3
R22 - Harmful if swallowed.

Declaration for 12+0+9+Fe:

EC FERTILISER

NK Fertiliser 12-9 with Iron (Fe)

Nitrogen (N) total	12.0%
Ammoniacal nitrogen (N)	12.0 %
Potassium oxide (K2O) soluble in water	9.0% (7.5% K)
Iron total (Fe)	1.00 %