



Material Safety Data Sheet

According to EC Directive 1907/2006

Print date: 22-May-2008

Revision Number: 0

Revision date:

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

Identification of the substance or preparation

MSDS Ref. No.: SCSDS239
 Product name: Miracle-Gro All Purpose Concentrated Liquid Plant Food
 Synonyms: Miracle-Gro Outdoor Plant Food

Use of the Substance/Preparation

Recommended use: For use only as a home garden fertilizer.

Company/Undertaking Identification
 • The Scotts Company (UK) Ltd, Salisbury House, Weyside Park, Catteshall Lane, Godalming, Surrey, GU7 1XE, United Kingdom

Emergency telephone number: • ++44 (0) 1865 407333 (24h)

Email: INFO-MSDS@Scotts.com

2. HAZARDS IDENTIFICATION

Classification

In accordance with the Chemicals (Hazard Information and Packaging for Supply) Regulations [CHIP 3], the product is not classified.

Most important hazards

None

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature of the preparation

Components	CAS-No	Weight %	EC-No.	Classification
Copper sulphate, CuSO ₄	7758-98-7	< 1%	231-847-6	N;R50/53 Xi;R36/38 Xn;R22
Phosphoric acid	7664-38-2	< 1%	231-633-2	C;R34

NE = Non-Established

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

4. FIRST AID MEASURES

General advice:	In the case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
Ingestion:	Rinse mouth. If symptoms persist, call a physician.
Inhalation:	Move person to fresh air. If symptoms persist, call a physician.
Skin contact:	Wash off immediately with soap and plenty of water. If symptoms persist, call a physician.
Eye contact:	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media:Water spray mist or foam. Carbon dioxide (CO₂). Powder.**Unsuitable extinguishing media:**

High volume water jet

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

Thermal decomposition can lead to release of irritating gases and vapours.

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:

Soak up with inert absorbent material. Sweep up and shovel into suitable containers for disposal.

7. HANDLING AND STORAGE

Handling:**Technical measures/precautions:**

Ensure adequate ventilation.

Safe handling advice:	Handle in accordance with good industrial hygiene and safety practice. When using do not eat or drink. When using do not smoke. Wash hands and exposed skin after use / handling.
Storage:	
Technical measures/storage conditions:	Store in original container. Keep tightly closed in a dry and cool place. Keep out of reach of children. Keep away from food, drink and animal feeding stuffs. Protect from extreme temperatures.
Incompatible products:	No information available
Specific use(s):	Water soluble fertilizer.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering measures to reduce exposure:	Personal protective equipment is not normally required - gloves can be worn for personal hygiene. In case of accidental spillage of bulk product, wear personal protective equipment appropriate to the task (see below).
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Occupational exposure controls

Personal protective equipment

Respiratory protection:	Respirator with FFP1 filter.
Hand protection:	Protective gloves. Nitrile rubber.
Eye/face protection	Safety glasses with side-shields.
Skin and body protection:	Lightweight protective clothing.
Hygiene measures	When using, do not eat, drink or smoke. Wash hands before stopping and immediately after handling.

Exposure limit values

Copper sulphate, CuSO₄

Finland - Occupational Exposure Limits - 8 hour	1 mg/m ³ TWA
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Phosphoric acid

Belgium - 8 Hr VLE	1 mg/m ³ TWA
Czech Republic OEL	= 1 mg/m ³ TWA
Finland - Occupational Exposure Limits - 8 hour	1 mg/m ³ TWA
France - Valeurs Limites d'exposition (VLE)	0.5 ppm VLCT
	2 mg/m ³ VLCT
France INRS (VME)	0.2 ppm VME
	1 mg/m ³ VME
Germany (DFG) - MAK	2 mg/m ³ MAK

Italy - OEL	= 1 mg/m ³ TWA
Netherlands - OEL - MACs:	0.2 ppm MAC
	1 mg/m ³ MAC
Norway - 8 h:	1 mg/m ³ TWA
Portugal - TWAs	1 mg/m ³ TWA
Spain - Valores Limite Ambientales - VLE	1 mg/m ³ VLA-ED
Sweden - OEL - 8 Hour	1 mg/m ³ LLV

9. PHYSICAL AND CHEMICAL PROPERTIES

General Information

Physical State:	Liquid
Color:	Green
Odor:	Not significant

Important Health Safety and Environmental Information

Solubility:	Soluble
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Other information

pH:	6
Specific gravity:	1.220g/l

10. STABILITY AND REACTIVITY

Stability:	Stable under recommended storage conditions.
Conditions to avoid:	Extremes of temperature and direct sunlight.
Materials to avoid:	Ferrous metals.
Hazardous decomposition products:	No decomposition if stored normally

11. TOXICOLOGICAL INFORMATION

Component information

<i>Copper sulphate, CuSO₄</i>	
LD50/oral/rat =	960 mg/kg
<i>Phosphoric acid</i>	
LD50/oral/rat =	1530mg/kg

Product information

Local effects

Skin effects:	Non-irritating to the skin.
Eye effects:	Not irritating.
Inhalation:	Not irritating.
Ingestion:	Not irritating.

12. ECOLOGICAL INFORMATION

Product information

Aquatic toxicity: No ecological information is available.

Component information

Copper sulphate, CuSO₄

Ecotoxicity effects EC50/48h/daphnia =0.8 mg/l

13. DISPOSAL CONSIDERATIONS

Waste Disposal Methods: Do not contaminate ponds, waterways or ditches with chemical or used container.
Dispose of empty container in the dustbin.

Contaminated packaging: Do not re-use empty containers.

14. TRANSPORT INFORMATION

Product information

Physical State: Liquid

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:**

In accordance with the Chemicals (Hazards Information and Packaging for Supply) Regulations (CHIP 3), the product is not classified.

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.

R34 - Causes burns.

R36/38 - Irritating to eyes and skin.

R50/53 - Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Reason for revision:

*** Indicates changes since the last revision. This version replaces all previous versions

Prepared by:

Regulatory Affairs Department.

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End of Safety Data Sheet