



Safety Data Sheet

Revision Date: 10-Jun-2014

Version: 1

Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Product Name: Miracle-Gro Rose & Shrub Continuous Release Plant Food
Product Code 320000003859

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

Recommended Use: Fertilizer
Uses Advised Against: None.

1.3. Details of the supplier of the safety data sheet

Manufacturer

The Scotts Company (UK) Ltd.
Salisbury House,
Weyside Park,
Catteshall Lane Godalming,
Surrey GU7 1XE
United Kingdom. Tel:
01483 410210

For further information, please contact

INFO-MSDS@Scotts.com

1.4. Emergency telephone number

01865 407333

Section 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Mixture

Regulation (EC) No 1272/2008

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [EU-GHS]

Classification according 67/548/EC and 88/379/EC or 1999/45/EC

This product does not have to be classified according to the EU regulations (1999/45/EC)

Full text of R-phrases: see section 16

2.2. Label elements

Product Identifier:

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [EU-GHS]

Signal Word:

None

EUH210 - Safety data sheet available on request

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Ingredients	EC-No.	CAS-No	Weight %	Classification according to 67/548/EEC	Classification according to Regulation (EC) No. 1272/2008 [CLP]	REACH registration number
Ammonium Nitrate; NH ₄ NO ₃	229-347-8	6484-52-2	25 - 40%	O;R8 Xi;R36	Eye Irrit. 2 (H319) Ox. Sol. 3 (H272)	01-2119490981-27
Magnesite; MgCO ₃	208-915-9	546-93-0	1 - 5%	NE	Not classified	01-2119523999-20
Magnesium oxide; MgO	215-171-9	1309-48-4	1 - 5%	NE	Not classified	Exempt
Calcium sulphate dihydrate, CaSO ₄ +2H ₂ O	231-900-3	10101-41-4	0.1 - 1%	NE	Not classified	01-2119444918-26
Calcium Carbonate; CaCO ₃	207-439-9	471-34-1	0.1 - 1%	NE	Not classified	Exempt

Full text of R-phrases: see section 16

Full text of H- and EUH-phrases: see section 16

Section 4: FIRST AID MEASURES

4.1. Description of first aid measures

General Advice:	First aid measures should be executed by trained personnel only.
Inhalation:	Dusty conditions are unlikely if product is used as intended. However, if prolonged inhalation of dust occurs, remove casualty to fresh air. If symptoms persist, call a physician.
Skin Contact:	If a person feels unwell or symptoms of skin irritation appear, consult a physician. Rinse with plenty of water.
Eye Contact:	Rinse eyes with water as a precaution. If eye irritation persists, consult a specialist.
Ingestion:	If conscious, drink plenty of water. Do NOT induce vomiting. Rinse mouth. Consult a physician if necessary.
Protection of First-Aiders:	Low hazard for usual industrial or commercial handling.

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

Symptoms: None under normal processing

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

Notes to Physician: None under normal processing.

Section 5: FIRE FIGHTING MEASURES

5.1. Extinguishing media

Suitable extinguishing media:

Coordinate fire extinguishing measures to fire in surrounding area. Use dry chemical, CO2, water spray or "alcohol" foam.

Unsuitable extinguishing media:

High volume water jet.

5.2. Special hazards arising from the substance or mixture

Thermal decomposition can lead to release of irritating and toxic gases and vapors.

5.3. Advice for firefighters

Coordinate fire extinguishing measures to fire in surrounding area.

Section 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Personal Precautions: Avoid dust formation. Sweep-up to prevent slipping hazard.

For Emergency Responders: Use personal protection recommended in Section 8.

6.2. Environmental precautions

Prevent product from entering drains. Do not contaminate surface water.

6.3. Methods and material for containment and cleaning up

Methods for Containment: Prevent further leakage or spillage if safe to do so.

Methods for Cleanup: Shovel or sweep up.

6.4. Reference to other sections

§ 8, 12, 13.

Section 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

General hygiene considerations:

Handle in accordance with good industrial hygiene and safety practice. Use personal protection recommended in Section 8. When using, do not eat, drink or smoke.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures/storage conditions:

Keep away from heat and sources of ignition. Keep away from food, drink and animal feeding stuffs. For quality reasons: Keep out of reach of direct sunlight, store under dry conditions, partly used bags should be closed well. Keep at temperatures between 0 °C and 40 °C.

LGK (Germany)
Packaging Materials:

Exempt
Bags or Bulk.

7.3. Specific end use(s)

Specific use(s)

Fertilizer; Read and follow label instructions; www.everris.com

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

<i>Ammonium Nitrate; NH4NO3</i>	
Czech Republic OEL	10.0 mg/m ³ TWA
<i>Magnesite; MgCO3</i>	

UK oes/mel:	STEL: 30 mg/m ³ STEL: 12 mg/m ³ TWA: 10 mg/m ³ TWA: 4 mg/m ³
France - Occupational Exposure Limits - 8 Hour VMEs	TWA: 10 mg/m ³
Switzerland	TWA: 3 mg/m ³
<i>Magnesium oxide; MgO</i>	
UK oes/mel:	STEL: 30 mg/m ³ STEL: 12 mg/m ³ TWA: 10 mg/m ³ TWA: 4 mg/m ³
France - Occupational Exposure Limits - 8 Hour VMEs	TWA: 10 mg/m ³
Bulgaria - Occupational Exposure Limits - TWAs	10.0 mg/m ³ TWA
Czech Republic OEL	5 mg/m ³ TWA
Spain Occupational Exposure Limits Data - Time Weighted Average (TWA):	TWA: 10 mg/m ³
Iceland - OEL - 8 Hour	6 mg/m ³ TWA Mg
Portugal	TWA: 10 mg/m ³
Netherlands - OEL - MACs:	10 mg/m ³
Portugal - TWAs	10 mg/m ³ TWA
Denmark	TWA: 6 mg/m ³
Austria	STEL 20 mg/m ³ STEL 10 mg/m ³ TWA: 5 mg/m ³ TWA: 10 mg/m ³
Switzerland	TWA: 3 mg/m ³
Poland	TWA: 5 mg/m ³ TWA: 10 mg/m ³
Norway	TWA: 10 mg/m ³ STEL: 20 mg/m ³
Ireland	TWA: 4 mg/m ³ TWA: 5 mg/m ³ TWA: 10 mg/m ³ STEL: 10 mg/m ³
France - Valeurs Limites d'exposition (VLE)	10 mg/m ³
<i>Calcium sulphate dihydrate, CaSO₄+2H₂O</i>	
Spain Occupational Exposure Limits Data - Time Weighted Average (TWA):	TWA: 10 mg/m ³
Portugal	TWA: 10 mg/m ³
Portugal - TWAs	10 mg/m ³ TWA
Switzerland	TWA: 3 mg/m ³
<i>Calcium Carbonate; CaCO₃</i>	
France - Occupational Exposure Limits - 8 Hour VMEs	TWA: 10 mg/m ³
Latvia - Occupational Exposure Limits - TWAs	6 mg/m ³ TWA
Bulgaria - Occupational Exposure Limits - TWAs	10.0 mg/m ³ TWA
Czech Republic OEL	10.0 mg/m ³ TWA
Portugal	TWA: 10 mg/m ³
Portugal - TWAs	10 mg/m ³ TWA
Poland	TWA: 10 mg/m ³

Derived No Effect Level (DNEL)

No data available

Predicted No Effect Concentration (PNEC)

No data available.

8.2. Exposure controls

Engineering Measures to Reduce Exposure: Ensure adequate ventilation, especially in confined areas.

Personal protective equipment

Eye/Face Protection:

Safety glasses

Hand protection:

PVC or other plastic material gloves.

Respiratory Protection:

No personal respiratory protective equipment normally required

Skin and Body Protection: Wear normal, light working clothing
 Hygiene Measures: Follow good housekeeping practices. When using, do not eat, drink or smoke. Keep away from food, drink and animal feeding stuffs.

Environmental exposure controls Do not allow into any sewer, on the ground or into any body of water.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Physical State:	Solid
Appearance:	granules
Color:	brown, green.
Odor:	Not significant
pH:	no data available
Melting Point/Freezing Point:	no data available
Boiling Point/Range:	Solid, not applicable
Flash Point:	Solid, not applicable
Evaporation Rate:	Solid, not applicable
Flammability (solid, gas):	Non-flammable
Vapor Pressure:	Solid, not applicable
Vapor Density:	Solid, not applicable
Specific Gravity:	no data available
Water Solubility:	Soluble in water
Solubility(ies)	no data available
Partition Coefficient:	Solid, not applicable
Autoignition Temperature:	not applicable
Decomposition Temperature:	no data available
Explosive Properties:	Doesn't present explosion hazard. Based on data of ingredients.

9.2. Other information

Bulk density: 990 - 1036 kg/m³

Section 10: STABILITY AND REACTIVITY

10.1. Reactivity

Not reactive.

10.2. Chemical stability

Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions

Hazardous Decomposition Products:

Thermal decomposition can lead to release of irritating and toxic gases and vapors.

Possibility of Hazardous Reactions:

None under normal processing.

10.4. Conditions to avoid

For quality reasons: Keep out of reach of direct sunlight, store under dry conditions, partly used bags should be closed well.

10.5. Incompatible materials

Keep away from catalysts like derivatives of hexavalent chromium and metal halides. Keep away from flammable products (fuels) like charcoal, wood, flour, soot etc.

10.6. Hazardous decomposition products

None under normal processing.

Section 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Acute Toxicity

Product Information:

Inhalation: May cause irritation of respiratory tract.

Eye Contact: May cause irritation.
Skin Contact: May cause irritation.
Ingestion: Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.
Unknown Acute Toxicity: 0% of the mixture consists of ingredient(s) of unknown toxicity.

Component Information:

Ingredients	LD50 Oral	LD50 Dermal	LC50 Inhalation
Ammonium Nitrate; NH ₄ NO ₃	= 2217 mg/kg (Rat)		> 88.8 mg/L (Rat) 4 h
Calcium Carbonate; CaCO ₃	= 6450 mg/kg (Rat)		

Skin Corrosion or Irritation See also section 3.
Serious Eye Damage or Eye Irritation See also section 3.
Sensitization See also section 3.
Mutagenic effects See also section 3.
Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen.

Reproductive Toxicity

Teratogenicity No data available.
STOT - Single Exposure No known effects under normal use conditions.
STOT - Repeated Exposure None under normal use conditions.
Aspiration Hazard No data available.

Section 12: ECOLOGICAL INFORMATION**12.1. Toxicity**

Do not allow product to enter the environment uncontrolled.

7% of the mixture consists of components(s) of unknown hazards to the aquatic environment.

12.2. Persistence and degradability

No information available.

12.3. Bioaccumulative potential

Ingredients	LOGPOW
Ammonium Nitrate; NH ₄ NO ₃	-3.1

12.4. Mobility in soil

No information available.

12.5. Results of PBT and vPvB assessment

No information available.

12.6. Other adverse effects

not applicable

Section 13: DISPOSAL CONSIDERATIONS**13.1. Waste treatment methods**

Disposal of Wastes:

Contaminated Packaging:
Other Information:

Disposal should be in accordance with applicable regional, national and local laws and regulations.
 Do not re-use empty containers. Dispose of as unused product.
 Use up product completely. Packaging material is industrial waste.

Section 14: TRANSPORT INFORMATION

IMO / IMDG

14.1 UN-No:	Not regulated
14.2 Proper shipping name:	Not regulated
14.3 Hazard Class:	Not regulated
14.4 Packing group:	Not regulated
14.5 Marine Pollutant:	Not regulated
14.6 Special Provisions	None
14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not regulated

ADR/RID

14.1 UN-No:	Not regulated
14.2 Proper shipping name:	Not regulated
14.3 Hazard Class:	Not regulated
14.4 Packing group:	Not regulated
14.5 Environmental Hazard	Not regulated
14.6 Special Provisions	None

IATA

14.1 UN-No:	Not regulated
14.2 Proper shipping name:	Not regulated
14.3 Hazard Class:	Not regulated
14.4 Packing group:	Not regulated
14.5 Environmental Hazard	Not regulated
14.6 Special Provisions	None

Section 15: REGULATORY INFORMATION

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

Component	EU - REACH (1907/2006) - Annex XVII - Restrictions on Certain Dangerous Substances
Ammonium Nitrate; NH ₄ NO ₃ 6484-52-2 (25 - 40%)	Use restricted. See item 58. (Conditions of restrictions 27 June 2010)

National regulations

France**ICPE (FR):**

Classified installation: article 1331 (Type III)

Germany**Gefahrstoffverordnung (Germany) TRGS 511****LGK (Germany)****Water Endangering Class (WGK):**

C III

Exempt

1 (Everris classification)

Component	German WGK Section
Ammonium Nitrate; NH ₄ NO ₃ 6484-52-2 (25 - 40%)	class 1
Magnesium oxide; MgO 1309-48-4 (1 - 5%)	class 1
Calcium Carbonate; CaCO ₃ 471-34-1 (0.1 - 1%)	class 0

European Union

Take note of Directive 2000/39/EC establishing a first list of indicative occupational exposure limit values

15.2. Chemical safety assessment

Not required. Substance(s) usage is covered according to Reach regulation 1907/2006.

Section 16: OTHER INFORMATION**Text of R Phrases mentioned in Section 3**

R8 - Contact with combustible material may cause fire

R36 - Irritating to eyes

Full text of H-Statements referred to under sections 2 and 3

H319 - Causes serious eye irritation

H272 - May intensify fire; oxidizer

Key or legend to abbreviations and acronyms used in the safety data sheet

RID: Regulations Concerning the International Transport of Dangerous Goods by Rail

ICAO: International Civil Aviation Organization

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonized System of Classification and Labeling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

PNEC: Predicted No Effect Concentration

DNEL: Derived No-Effect Level

Reach: Registration, Evaluation, authorization of Chemicals

CLP: EU-GHS; Classification, Labelling and Packaging

OEL: Occupational Exposure Limit

TWA: Time Weighted Average.

Classification procedure:

- Calculation method

- Expert judgment and weight of evidence determination

Prepared by:

No information available

Revision Date:

10-Jun-2014

Reason for revision:

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

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

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End of Safety Data Sheet