



Safety Data Sheet

According to Regulation (EC) No 1907/2006 (REACH)

Trade name: Westland Moss master

Version: Revision date: 22.01.2018

Print date: 22.01.2018

SAFETY DATA SHEET

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

1.1 Product Identifier Moss Master

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

Usage Lawn Feed & Treatment

1.3 Supplier Westland Horticulture Ltd
14 Granville Industrial Estate
Granville Road
Dungannon
County Tyrone
BT70 1NJ

Email customerservice@WestlandHorticulture.com

1.4 Emergency Telephone number 01480 443789 (UK) 24 Hrs

2. HAZARDS IDENTIFICATION

2.1 Classification of the Substance or Mixture According to Regulation (EC) No 1272/2008:

Not classified

2.2 Label Elements According to Regulation (EC) No 1272/2008:

Not applicable

Precautionary statements: Not applicable



Safety Data Sheet

According to Regulation (EC) No 1907/2006 (REACH)

Trade name: Westland Moss master

Version: Revision date: 22.01.2018

Print date: 22.01.2018

Other Hazards

This product does not meet the criteria for PBT or vPvB

Supplemental Hazard information: None

Special rules for supplemental label elements for certain mixtures: None

Additional labelling: None

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 N/A

3.2 Description Lawn treatment.

Hazardous Ingredients

Ingredient	Identifiers	Concentration %W/W	Warning Symbols	Regulation (EC) No 1272/2008 (CLP)
Limestone	CAS: 1317-65-3	55 – 65 %		Substance with Workplace Exposure Limit
Gypsum, Calcium Sulphate	CAS: 10101-41-4 EC: 231-900-3	20 – 30 %		Substance with Workplace Exposure Limit
Ferrous Sulphate Heptahydrate	CAS: 7720-78-7 EC: 231-753-5	≤5 %		Acute Tox 4; H302 Skin Irrit 2; H315 Eye Irrit 2; H319

4. FIRST AID MEASURES

4.1 General information: Have the product container, label or Material Safety Data Sheet with you when calling a poison control center or physician, or going for treatment.

Inhalation: Move person to fresh air.
Keep patient warm and at rest.
Get medical advice if symptoms persist or develop



Safety Data Sheet

According to Regulation (EC) No 1907/2006 (REACH)

Trade name: Westland Moss master

Version: Revision date: 22.01.2018

Print date: 22.01.2018

- Skin Contact:** Wash off with soap and plenty of water.
Get medical advice if irritation persists or develop
- Eye Contact:** Rinse with plenty of water, also under the eyelids, for at least 15 minutes.
Remove contact lenses and continue flushing.
Get medical attention if symptoms persist or develop
- Ingestion:** Do not induce vomiting unless directed to do so by medical personnel
Rinse out mouth and then drink water
Get medical attention if symptoms persist or develop

4.2 Most important symptoms and effects, both acute and delayed

Symptoms: None

Effects: None

4.3 Indication of any immediate medical attention and special treatment needed

Notes for the doctor: None

Special treatment: Information not available

5. FIRE FIGHTING MEASURES

5.1 Extinguishing Media:

Use foam, carbon dioxide, dry powder or sand
The mixture is not classified as flammable as such extinguishing media should be chosen as appropriate for surrounding materials.

5.2 Specific Hazards Arising From the Substance or Mixture:

Fire will produce hazardous products of combustion
Exposure to decomposition products may be a hazard to health.

5.3 Advice for Fire Fighters:

Wear full protective clothing and self-contained breathing apparatus.

Additional Information:

Cool endangered containers with water spray
Do not allow molten material or run-off from fire fighting to enter drains or water courses.
If fire run-off water enters drains or water course, inform the appropriate water authorities immediately



Safety Data Sheet

According to Regulation (EC) No 1907/2006 (REACH)

Trade name: Westland Moss master

Version: Revision date: 22.01.2018

Print date: 22.01.2018

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal Precautions, Protective Equipment and Emergency Procedures:

Avoid formation / breathing of dust
Avoid contact with skin and eyes
Ensure adequate ventilation
Use Personal Protective Equipment: coveralls, gloves and eye/face protection

6.2 Environmental Precautions:

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers

6.3 Methods and Materials for Containment and Cleaning Up:

Vacuum or sweep up material.
Avoid dry sweeping which creates dust.
Place into suitable labelled containers for disposal according to local / national regulations

Additional Advice: If large quantities of the product contaminates water courses or drains (including via contaminated soil & vegetation), inform respective authorities.

6.4 Reference to other sections:

See Section 8 for information on personal protection equipment
See Section 13 for disposal information

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Handling:

- Prevent dust formation and inhalation
- Avoid contact with eyes and skin
- Wear gloves when handling the product over long periods of time
- Do not eat, drink or smoke when using this product
- Take off contaminated clothing and wash before reuse
- Avoid unnecessary exposure to atmosphere to prevent moisture pick up
- Wash hands and observe good hygiene practice after handling this product
- Do not spread onto surfaces other than grass to avoid staining



Safety Data Sheet

According to Regulation (EC) No 1907/2006 (REACH)

Trade name: Westland Moss master

Version: Revision date: 22.01.2018

Print date: 22.01.2018

7.2 Conditions for safe storage, including any incompatibilities

Storage:

- Keep containers closed tightly in a dry, cool and well-ventilated place.
- Keep product in original labeled containers
- Storage areas should be appropriately sited to prevent contamination of drains or watercourses
- Keep out of the reach of children

7.3 Specific End Uses:

Use as a fertiliser according to the instruction on the label

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control Parameters

8.1.1 Occupational exposure limits:

Limit value type (country of origin)	Substance name	EC-No.	CAS-No.	Occupational exposure limit value		Monitoring And observation processes	Peak limitation	Source
				Long term	Short term			
OEL (EU)	Ferrous Sulphate Heptahydrate	231-753-5	7720-78-7	1 mg/m ³	2 mg/m ³	-	-	HSE
OEL (EU)	Gypsum, Calcium Sulphate	231-900-3	10101-41-4	Total inhalable 10 mg/m ³ Respirable 4 mg/m ³	-	-	-	HSE
OEL (EU)	Limestone	-	1317-65-3	Total inhalable 10 mg/m ³ Respirable 4 mg/m ³	-	-	-	HSE

8.1.2 Biological limit values: No data

Safety Data Sheet

According to Regulation (EC) No 1907/2006 (REACH)

Trade name: Westland Moss master

Version: Revision date: 22.01.2018

Print date: 22.01.2018

8.1.3 Exposure limits at intended use:

8.1.4 DNEL/PNEC-values:

Substance name: Iron sulphate

DNEL Worker:

DNEL type	Value	Remark
Acute – dermal, local effects	-	-
Long-term – dermal, local effects	0.28mg/kg	-
Long-term – dermal, systemic effects	-	-
Acute – inhalation, local effects	-	-
Acute – inhalation, systemic effects	-	-
Long-term – inhalation, local effects	-	-
Long-term – inhalation, systemic effects	-	-

DNEL Consumer:

DNEL type	Value	Remark
Long-term – oral, systemic effects	20mg/kg	-
Acute – dermal, local effects	-	-
Long-term – dermal, local effects	1.4mg/kg	-
Long-term – dermal, systemic effects	-	-
Acute – inhalation, local effects	-	-
Acute – inhalation, systemic effects	-	-
Long-term – inhalation, local effects	-	-
Long-term – inhalation, systemic effects	-	-

PNEC

PNEC type	Value	Remark
PNEC aquatic, freshwater	No data	No data
PNEC aquatic, marine water	No data	No data
PNEC aquatic, intermittent release	No data	No data
PNEC sediment, freshwater	No data	No data
PNEC sediment, marine water	No data	No data
PNEC soil	No data	No data
PNEC sewage treatment plant	No data	No data
PNEC air	No data	No data
PNEC secondary poisoning	No data	No data

8.1.5 Risk management measures according to used control banding approach

Not applicable



Safety Data Sheet

According to Regulation (EC) No 1907/2006 (REACH)

Trade name: Westland Moss master

Version: Revision date: 22.01.2018

Print date: 22.01.2018

8.2 Exposure Controls

8.2.1 Appropriate Engineering Controls: No special ventilation requirements.
Avoid high dust concentration and provide ventilation where necessary

8.2.2 Personal protective equipment:

Eye Protection: Wear eye protection when a risk assessment indicates this is necessary to avoid exposure to dust. Safety glasses complying with EN166 as a minimum

Skin and Body Protection: Protective work clothing

Hand Protection: Wear suitable gloves when handling the product over long periods or if a risk assessment indicates this is necessary. Gloves complying with EN420

Respiratory Protection: Not necessary if room is well ventilated
Use suitable dust respirator if dust concentration is high (Filter P2)

8.2.3 Environmental exposure controls:

Consumer exposure control: None advised

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance: Solid, brown/grey granules

Physical state: Solid

Colour: brown/grey

Odour: Odourless

Odour threshold: unknown

Other Properties



Safety Data Sheet

According to Regulation (EC) No 1907/2006 (REACH)

Trade name: Westland Moss master

Version: Revision date: 22.01.2018

Print date: 22.01.2018

9.2 Other information:

	Value	Concentration	Method	Temperature	Pressure	Remark
pH	5.5-7.0	-	-	20°C	-	-
Melting point/freezing point	-	-	-	-	-	-
Initial boiling point/boiling range	-	-	-	-	-	-
Flash point	-	-	-	-	-	-
Evaporation rate	-	-	-	-	-	-
Flammability (solid, gas)	-	-	-	-	-	-
Upper/lower flammability or explosive limits	-	-	-	-	-	-
Upper explosive limits	-	-	-	-	-	-
Lower explosive limits	-	-	-	-	-	-
Vapour pressure	-	-	-	-	-	-
Vapour density	-	-	-	-	-	-
Relative density	1.10 g/l	-	-	-	-	-
Solubility(ies)	-	-	-	-	-	-
Partition coefficient: n-octanol/water	-	-	-	-	-	-
Auto-ignition temperature	-	-	-	-	-	-
Decomposition temperature	-	-	-	-	-	-
Viscosity	-	-	-	-	-	-
Viscosity, dynamic	-	-	-	-	-	-
Viscosity, cinematic	-	-	-	-	-	-
Explosive properties	-	-	-	-	-	-
Oxidising properties	-	-	-	-	-	-

Physical hazards: N/A

Flammable aerosols

Justification for data waiving:

Safety characteristics:



Safety Data Sheet

According to Regulation (EC) No 1907/2006 (REACH)

Trade name: Westland Moss master

Version: Revision date: 22.01.2018

Print date: 22.01.2018

	Value	Result	Method	Remark
Content of flammable components				
Chemical heat of combustion				
Ignition distance				Testing is not required for foam aerosols.
Time equivalent				
Deflagration density				
Maximum flame height				Testing is not required for spray aerosols.
Flame duration				

Assessment / Classification: N/A

Flammable solids

Justification for data waiving:

Safety characteristics:

	Value	Method	Remark
Burning rate	N/A		
Burning rate with wetted zone			
Moisture content			

Assessment / Classification: N/A

Oxidising solids

Justification for data waiving:

Safety characteristics:

	Value	Method	Remark
Preliminary test	N/A		
Mean burning time of test mixture			
Mean burning time of reference mixture			

Assessment / Classification: None



Safety Data Sheet

According to Regulation (EC) No 1907/2006 (REACH)

Trade name: Westland Moss master

Version: Revision date: 22.01.2018

Print date: 22.01.2018

10. STABILITY AND REACTIVITY

10.1 Reactivity: Heating or fire can release toxic or irritant vapours and fumes

10.2 Chemical Stability: Stable under normal conditions of storage, handling and use

10.3 Possibility of hazardous reactions: Strong oxidising agents such as fluorine, chlorine trifluoride, diazomethane and oxygen difluoride may cause a heat reaction. Metal oxo-compounds and sulphides can react with gypsum. Metal oxo-compounds and sulphides mixed with gypsum and aluminium can react violently.

10.4 Conditions to Avoid: None reported

10.5 Incompatible Materials: Strong oxidising agents such as fluorine, chlorine trifluoride, diazomethane and oxygen difluoride.
Metal oxo-compounds and sulphides.
Metal oxo-compounds and sulphides mixed with aluminium.

10.6 Hazardous Decomposition: Heating or fire can release toxic or irritant vapours and fumes

11. TOXICOLOGICAL INFORMATION

Toxicokinetics, metabolism and distribution

11.1 Information on toxicological effects

The product has not been tested. The statements on toxicology have been derived from the properties of the individual components.

Acute toxicity

Practical experience / human evidence: no data

Animal data: Median lethal dose Oral, LD50 319 mg/kg (Rat)(Ferrous Sulphate Heptahydrate)

Other information: None

Assessment / Classification: Not classified



Safety Data Sheet

According to Regulation (EC) No 1907/2006 (REACH)

Trade name: Westland Moss master

Version: Revision date: 22.01.2018

Print date: 22.01.2018

Skin corrosion/irritation: The mixture is not classified as skin irritant based on formulation components

Eye Damage/ Irritation: The mixture is not classified for eye damage based on formulation components

Respiratory or Skin Sensitization: The mixture is not classified as a sensitizer based on formulation components

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction): The mixture is not classified as mutagenic, carcinogen, reproductive toxic or aspiration hazard based on formulation components

Aspiration hazard

Practical experience / human evidence: No data available.

Experimental data: No data available

Assessment / Classification: Based on available data, the classification criteria are not met

12. ECOLOGICAL INFORMATION

The mixture has not been tested. The mixture is not classified for environmental hazard based on formulation components

12.1 Toxicity: Ferrous Sulphate

Aquatic toxicity

Acute (short-term) fish toxicity: LC50 *Onchorhynchus mykiss* (Rainbow trout), 86.2 mg/l, 96h

Chronic (long-term) fish toxicity: No information available on mixture

Acute (short-term) toxicity to crustacea: No information available on mixture

Chronic (long-term) toxicity to crustacea: No information available on mixture

Acute (short-term) toxicity to algae and cyanobacteria: No information available on mixture

Toxicity to other aquatic plants / organisms: EC50 *Daphnia magna* (water flea), 1-10 mg/l, 48h

Toxicity to microorganisms: No information available on mixture

12.2 Persistence and Degradability: No information available on mixture

12.3 Bioaccumulative Potential: No information available on mixture

12.4 Mobility in Soil: No information available on mixture

12.5 Results of PBT and vPvB assessment: No information available on mixture

12.6 Other adverse effects: Information not available



Safety Data Sheet

According to Regulation (EC) No 1907/2006 (REACH)

Trade name: Westland Moss master

Version: Revision date: 22.01.2018

Print date: 22.01.2018

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product: Do not contaminate ponds, waterways or ditches with significant quantities of product
Check if agriculture use is possible. Dispose of by use on farm as a fertiliser, by spreading thinly on open ground
Where possible recycling is preferred to disposal or incineration.
If recycling is not practicable, dispose of in compliance with local regulations.

Contaminated Packaging: Empty remaining contents.
Completely empty containers can be put in the bin or disposed of in compliance with applicable local regulations

14. TRANSPORT INFORMATION

	Land transport (ADR/RID)	Inland waterway transport (ADN)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
14.1 UN No.	Not dangerous goods	Not dangerous goods	Not dangerous goods	Not dangerous goods
14.2 UN Proper shipping name	Not dangerous goods	Not dangerous goods	Not dangerous goods	Not dangerous goods
14.3 Transport hazard class(es)	Not dangerous goods	Not dangerous goods	Not dangerous goods	Not dangerous goods
Hazard label(s)	Not dangerous goods	Not dangerous goods	Not dangerous goods	Not dangerous goods
14.4 Packing group	Not dangerous goods	Not dangerous goods	Not dangerous goods	Not dangerous goods
14.5 Environmental hazards	Not dangerous goods	Not dangerous goods	Not dangerous goods	Not dangerous goods



Safety Data Sheet

According to Regulation (EC) No 1907/2006 (REACH)

Trade name: Westland Moss master

Version: Revision date: 22.01.2018

Print date: 22.01.2018

14.6 Special precautions for user: None

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Additional information: None

15. REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance of mixture:

15.1.1 This mixture is classified in accordance with Regulation 1272/2008.

15.2 Chemical Safety Assessment: A Chemical Safety Assessment has not been undertaken for this mixture

16. OTHER INFORMATION

16.1 Indication of changes: None

16.2 Abbreviations and Acronyms

ADR	International Carriage of Dangerous Goods by Road
CAS No	Chemicals Abstract Service Registry Number
DNEL	Derived No-Effect Level
EC No	European Community Number for chemicals within EU regulations
IATA-DGR	Dangerous Goods Regulations by the International Air Transport Association
IMDG Code	International Maritime Dangerous Goods Code
PBT	Persistent, Bioaccumulative and Toxic Properties
Regulation (EC) No 1272/2008	Classification, Labelling and Packaging (CLP)
RID	International Transport of Dangerous Goods by Rail
STOT	Specific Target Organ Toxicity
TWA	Time-Weighted Average.
vPvB	Very Persistent and Very Bioaccumulative Properties



Safety Data Sheet

According to Regulation (EC) No 1907/2006 (REACH)

Trade name: Westland Moss master

Version: Revision date: 22.01.2018

Print date: 22.01.2018

16.3 Key literature references and sources for data - Unknown

16.4 Classification for mixtures and used evaluation method according to regulation (EC) 1207/2008 [CLP]: See SECTION 2.1 (classification).

16.5 Full texts of abbreviated H Statements refer to under Section 3:

H302	Harmful if swallowed
H315	Causes skin irritation
H319	Causes serious eye irritation

16.6 Training advice: Follow the instructions

16.7 Further information

Before using this product, ensure that you read and understand its label

MSDS information:

This Safety Data Sheet is prepared in compliance with Regulation 1272/2008 and Annex I of the REACH regulation 453/2010.

This safety data sheet provides health and safety information. This product is to be used in applications with best use practice. Individuals handling this product should be informed under COSHH of the recommended safety precautions and should have access to this information. The product information in this data sheet is to the best of our knowledge correct as at the date of publication. Westland Horticulture Limited does not accept responsibility for damage caused by incorrect use of this information.

Training and related advice:

This document contains important information to ensure the safe storage, handling and use of this product. It is the responsibility of your organisation to ensure that the information contained in this document is communicated to the end user and that all necessary training to enable the product to be used correctly has been given.

For further information please contact Westland Horticulture Ltd, 14 Granville Industrial Estate, Granville Road, Dungannon, County Tyrone, BT70 1NJ.