



SAFETY DATA SHEET

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

Product	Autumn All In One
Usage	Lawn feed and moss killer treatment
Supplier	Westland Horticulture Ltd 14 Granville Industrial Estate Granville Road Dungannon County Tyrone BT70 1NJ
Email	customerservice@WestlandHorticulture.com
Emergency Tel	01480 443789 (UK)

2. HAZARDS IDENTIFICATION



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

Acute Tox. 4	H302	Harmful if swallowed
Skin Irrit. 2	H315	Causes skin irritation
Eye Dam. 1	H318	Causes serious eye damage

Classification of the Substance or Mixture According to Directive 67/548/EEC or Directive 1999/45/EC:

Xn	R22	Harmful if swallowed
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Label Elements According to Regulation (EC) No 1272/2008:

Hazard Pictograms	GHS05, GHS07	 
Signal Word	Danger	
Hazard Statements	H302 Harmful if swallowed H315 Causes skin irritation H318 Causes serious eye damage	



Precautionary Statements

P280	Wear protective gloves and eye protection
P301+312	IF SWALLOWED: Call an POISON CENTER or doctor if you feel unwell
P305+351+338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a Poison Center or doctor/physician
P302+352	IF ON SKIN: Wash with plenty of soap and water.
P501	Dispose of contents/container to an approved waste disposal plant

3. COMPOSITION/INFORMATION ON INGREDIENTS

Description Lawn fertiliser and treatment. NPK 4 – 5 – 15

Hazardous Ingredients

Ingredient	Identifiers	Concentration %W/W	Warning Symbols	Directive 67/548/EEC	Regulation (EC) No 1272/2008 (CLP)
Ferrous Sulphate Heptahydrate	CAS: 7720-78-7 EC: 231-753-5	>25 %		Xn; R22 Xi; R36/R38	Acute Tox 4; H302 Skin Irrit 2; H315 Eye Irrit 2; H319
Calcium bis (dihydrogen-ortho-phosphate)	CAS : 7758-23-8 EC: 231-837-1	3.0-6.0 %		Xi; R41	Eye Dam. 1; H318

See Section 16 for the full text of the R phrases or H statements declared above

4. FIRST AID MEASURES

General Advice: 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: Small quantities are unlikely to cause toxic effects.
Move person to fresh air.
Keep patient warm and at rest.
Get medical advice if symptoms persist or develop

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 immediately

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

Treatment (Medical Advice): Information not available

5. FIRE FIGHTING MEASURES

Suitable 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.

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.

Special Protective Equipment for Fire Fighters:

Wear full protective clothing and self-contained breathing apparatus.

Further 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

6. ACCIDENTAL RELEASE MEASURES

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

Environmental Precautions:

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

Methods and Materials for Containment and Cleaning Up:

Vacuum or sweep up material.

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.

Reference to other sections:

See Section 8 for information on personal protection equipment

See Section 13 for disposal information



7. HANDLING AND STORAGE

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

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

Specific End Uses:

Use as a fertiliser according to the instruction on the label

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control Parameters

Ingredients with limit values that require monitoring at the workplace:

Ingredient	Work Exposure Limit (WEL)	
	Long-term Exposure Limit (8-hr TWA reference period)	Short-term Exposure Limit (15 minute reference period)
Iron salts	1mg/m ³	2 mg/m ³

Exposure Controls

Engineering Measures: No special ventilation requirements.
Avoid high dust concentration and provide ventilation where necessary

Protective Measures: The use of technical measures should always have priority over the use of personal protective equipment
A risk assessment based on the task being performed and the risks involved should be carried out to determine personal protection equipment required
When selecting personal protective equipment, seek appropriate professional advice
Personal protective equipment should be certified to appropriate standards



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

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Solid, brown/grey granules
Odour: Characteristic

Other Properties:

	Value	Temperature	Method
pH (100g/l)	4.0 – 6.0	20 °C	
Density	1.00 kg/l		

No other relevant information available

10. STABILITY AND REACTIVITY

- Chemical Stability:** Stable under normal conditions of storage, handling and use
- Hazardous Reactions:** Hazardous reactions will not occur under normal transport or storage conditions.
- Hazardous Decomposition:** Heating or fire can release toxic or irritant vapours and fumes
- Incompatible Materials:** Oxidising agents
- Conditions To Avoid:** Extremes of temperature



11. TOXICOLOGICAL INFORMATION

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

Acute Toxicity: Information on ingredients below:
Ferrous Sulphate Heptahydrate: Median lethal dose Oral, LD50 319 mg/kg (Rat)

Skin Irritation: The mixture is classified as skin irritant based on formulation components

Serious Eye Irritation: The mixture is classified for eye irritation based on formulation components

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

Long Term Toxicity: The mixture is not classified as mutagenic, carcinogen, reproductive toxic or aspiration hazard based on formulation components

STOT- repeated exposure: No information available on mixture

12. ECOLOGICAL INFORMATION

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

Ecotoxicity: Information on ingredients below

- **Toxicity To Fish:** **Ferrous Sulphate:** LC50 Onchorhynchus mykiss (Rainbow trout), 86.2 mg/l, 96h
- **Toxicity To Aquatic Invertebrates:**
 - Ferrous Sulphate:** EC50 Daphnia magna (water flea), 1-10 mg/l, 48h
 - Superphosphate:** EC50 Daphnia magna (water flea), 1790 mg/l, 72h

Persistence and Degradability: No information available on mixture

Bioaccumulative Potential: No information available on mixture

Mobility in Soil: No information available on mixture

PBT and vPvB assessment: No information available on mixture

Other Data: Information not available



13. DISPOSAL CONSIDERATIONS

- 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)** Not dangerous goods
- Maritime Transport (IMDG)** Not dangerous goods
- Air Transport (IATA-DGR)** Not dangerous goods
- Special precautions for user:** None

15. REGULATORY INFORMATION

Registration Numbers: MAPP 16566

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

This mixture is classified in accordance with Directive 1999/45/EC and regulation 1272/2008.

The mixture is also regulated by the following legislation:

EC Directives: 76/116/EEC (Relating to fertilisers)

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

16. OTHER INFORMATION

Recommended uses and restrictions: Follow the instructions

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

- H302 Harmful if swallowed
H315 Causes skin irritation
H318 Causes serious eye damage
H319 Causes serious eye irritation

Full texts of abbreviated R phrases refer to under Section 3:

R22	Harmful if swallowed
R36/38	Irritating to skin and eyes
R41	Risk of serious damage to eyes

Full text of Classifications

- **CLP/GHS:** Acute Tox 4; Acute Toxicity, Category 4
Eye Dam 1; Eye Damage, Category 1
Eye Irrit 2; Eye Irritation, Category 2
Skin Irrit 2; Skin Irritation, Category 2
- **DSD/DPD:** Xn; Harmful
Xi; Irritant

Abbreviations and Acronyms

ADR	International Carriage of Dangerous Goods by Road
CAS No	Chemicals Abstract Service Registry Number
Directive 67/548/EEC	Dangerous Substances Directive (DSD)
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
vPvB	Very Persistent and Very Bioaccumulative Properties

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 Directive 1999/45/EC, 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.