



Safety Data Sheet

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

Trade name: . Westland Rose 2 in 1 Feed and Protect

Version: 1.0

Revision date: 17.12.2019

Print date: 17.12.2019

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

1.1 Product identifier Westland Rose 2 in 1 Feed & Protect

1.2 Relevant identified use Liquid fertiliser with Calcium additive

1.3 Details of the supplier of the safety data sheet:

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) 24hrs

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:

Hazard Pictograms Not applicable

Signal Word Not applicable

Hazard Statements Not applicable

Precautionary Statements

P101 If medical advice is needed, have product container or label at hand

P102 Keep out of reach of children

P103 Read label before use



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3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances: N/A

3.2 Description Liquid fertiliser with added Calcium

Ingredient	Identifiers	Concentration %W/W	Warning Symbols	Regulation (EC) No 1272/2008 (CLP)
Calcium thiosulphate	CAS: 10124-41-1 EC: 233-333-7	20-30%	N/A	N/A

Hazardous Ingredients

This mixture does not contain any ingredients classified as hazardous substances

4. FIRST AID MEASURES

4.1 Description of first aid measures

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 attention if symptoms occur

Skin Contact: Take off all contaminated clothing and shoes.
Wash off with plenty of water.
Get medical attention if symptoms occur

Eye Contact: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.
Remove contact lenses and continue flushing.
Get medical attention if irritation occurs

Ingestion: Wash out mouth with water
Do NOT induce vomiting at least directed to do so by medical personnel
Give small quantities of water to drink if person is conscious



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Get medical attention if symptoms occur

4.2 Most Important symptoms and effects, both acute and delayed:

No known significant effects or critical hazards

4.3 Indication of any immediate medical attention and special treatment needed

None required

5. FIRE FIGHTING MEASURES

5.1 Extinguishing Media:

Suitable extinguishing media for the surrounding fire should be used

5.2 Specific Hazards Arising from the Mixture:

As the product contains combustible organic components, fire will produce hazardous products of combustion such as carbon monoxide, carbon dioxide, nitrogen oxides, metal oxides, ammonia or halogenated compounds.

Exposure to decomposition products may be a hazard to health

In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

5.3 Advice for Fire Fighters:

Wear full protective clothing and self-contained breathing apparatus if required.

Further Information:

Do not allow run-off from fire-fighting to enter drains or water courses.

In a fire or if heated, pressure increase will occur, and the container may burst. Cool closed containers exposed to fire with water spray.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal Precautions, Protective Equipment and Emergency Procedures:

Refer to protective measures listed in sections 7 and 8.

Do not touch or walk through spilled material

Keep unnecessary and unprotected personnel from entering the area

6.2 Environmental Precautions:

Prevent further leakage or spillage if safe to do so.

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



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6.3 Methods and Materials for Containment and Cleaning Up:

Contain spillage, and then collect with non-combustible absorbent material (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations

Additional Advice: If the product contaminates rivers and lakes or drains inform respective authorities.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Handling:

- Avoid contact with skin, eyes and clothing
- When using do not eat, drink or smoke
- Wash hands thoroughly after work and before eating, drinking or smoking

7.2 Conditions for safe storage, including any incompatibilities

- Keep containers closed tightly in a dry, cool and well-ventilated place.
- Keep out of the reach of children
- Keep away from food, drink and animal feed stuffs
- Keep protected from direct sunlight
- Use appropriate containment to avoid environmental contamination

7.3 Specific End Uses: Use only as a fertiliser according to the instruction on the label

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control Parameters

8.1.1 Occupational exposure



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a) Occupational exposure limits

If limit values are applicable and available these will be listed below

b) National biological limit values

If limit values are applicable and available these will be listed below.

8.1.2 Sampling methods

Product name	Test	Number
Calcium & Cpds	NIOSH	7020
Sulfites, Sulfates	NIOSH	6004

8.1.3 Applicable limit values when using the substance or mixture as intended

If limit values are applicable these will be listed below

8.1.4 DNEL/PNEC values

DNEL/DMEL-Workers

Calcium thiosulphate

Effect level (DNEL/DMEL)	Type	Value	Remark
DNEL	Long-term systemic effects inhalation	351mg/m ³	

DNEL/DMEL-General population

Calcium thiosulphate

Effect level (DNEL/DMEL)	Type	Value	Remark
DNEL	Long-term systemic effects inhalation	104mg/m ³	
	Long term systemic effects oral	14mg/kg bw/day	

PNEC

Calcium thiosulphate

Compartments	Value	Remark
Fresh water	0.83mg/L	
Marine water	0.083mg/L	
STP	106.5mg/L	



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8.1.5 Control Banding

If applicable and available, it will be listed below

8.2 Exposure Controls

Appropriate engineering measures: Containment and/or segregation is the most reliable technical protection measure if exposure cannot be eliminated.

The extent of these protection measures depends on the actual risks in use.

If airborne mists or vapors are generated, use local exhaust ventilation controls.

Assess exposure and use any additional measures to keep airborne levels below any relevant exposure limit.

Where necessary, seek additional occupational hygiene advice.

Personal protective equipment: The use of technical measures should always have priority over the use of personal protective equipment.

When selecting personal protective equipment, seek appropriate professional advice. Personal protective equipment should be certified to appropriate standards

Respiratory Protection: No personal respiratory protective equipment normally required.

A particulate filter respirator may be necessary when a risk assessment indicates this is necessary

Hand Protection: Wear chemical resistant gloves when handling the product over long periods or if a risk assessment indicates this is necessary.

Eye Protection: Eye protection is not usually required

Wear eye protection when a risk assessment indicates this is necessary to avoid exposure to liquid splashes or mists

Follow any site-specific eye protection policies

Skin and Body Protection: Protective work clothing

8.2.3 Environmental exposure controls: N/A

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance: dark brown liquid



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Physical state: liquid

Colour: dark brown

Odour: Odourless or slight ammoniacal

Odour threshold: none known

9.2 Other information:

	Value	Concentration	Method	Temperature	Pressure	Remark
pH	6.0-7.0	-	-	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	1.19 g/ml	-	-	20°C	-	-
Solubility(ies)	-	-	-	-	-	-
Partition coefficient: n-octanol/water	-	-	-	-	-	-
Auto-ignition temperature	-	-	-	-	-	-
Decomposition temperature	-	-	-	-	-	-
Viscosity	-	-	-	-	-	-
Viscosity, dynamic	-	-	-	-	-	-
Viscosity, cinematic	-	-	-	-	-	-
Explosive properties	-	-	-	-	-	-
Oxidising properties	-	-	-	-	-	-



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Physical hazards: None

10. STABILITY AND REACTIVITY

10.1 Reactivity: Stable under normal conditions of storage, handling and use

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

10.3 Possibility of hazardous reactions: Hazardous reactions will not occur under normal transport or storage conditions.

10.4 Conditions to Avoid: No specific data

10.5 Incompatible Materials: Urea reacts with calcium hypochlorite or sodium hypochlorite to form explosive nitrogen trichloride

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

11. TOXICOLOGICAL INFORMATION

Toxicokinetics, metabolism and distribution

11.1 Information on toxicological effects

Acute Toxicity: Mixture not classified for acute toxicity

Skin corrosion/ Irritation: The mixture is not classified as skin irritant

Eye damage/Irritation: The mixture is not classified for eye irritation

Respiratory or Skin Sensitization: The mixture is not classified as a sensitizer

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



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12. ECOLOGICAL INFORMATION

12.1 Toxicity: No known significant effects or critical hazards

12.2 Persistence and Degradability: Readily biodegradable in plants and soils. The product does not show any bioaccumulation phenomena

12.3 Bioaccumulative Potential: No known significant effects or critical hazards

12.4 Mobility in Soil: Not available

12.5 PBT and vPvB assessment: Not applicable

Other adverse effects: No known significant effects or critical hazards

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product: Do not contaminate ponds, waterways or ditches with chemical or used container.
Do not dispose of waste into sewer.
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.
Triple rinse containers. The rinse water should be added to the final solution. It must not be put down the drain, sink or toilet
Completely empty containers can be put in the bin or disposed of in compliance with applicable local regulations.
Do not reuse empty containers.



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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

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:



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This mixture is classified and labelled according to the CLP Regulation (EC) No 1272/2008

15.2 Chemical Safety Assessment: This product contains substances for which Chemical Assessments are still required

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
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

16.3 Key literature references and sources for data: Westland Horticulture Ltd

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

16.5 Relevant, H- and EUH-phrases (number and full text): N/A

16.6 Training advice: follow the instructions

16.7 Further information

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



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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.