



Safety Data Sheet

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

Trade name: Westland Bonsai feed concentrate

Version: 1.0

Revision date: 5.2.2018

Print date: 5.2.2018

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

1.1 Product Westland Bonsai Feed Concentrate

1.2. Relevant identified uses Fertiliser

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 +44 1480 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	None
Signal Word	None
Hazard Statements	None
Precautionary Statements	None
Other hazards	None



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3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances N/A

3.2 Mixtures

Description NPK fertiliser 1.8-1.0-2.3

Hazardous Ingredients

Ingredient	Identifiers	Concentration %W/W	Warning Symbols	Regulation (EC) No 1272/2008 (CLP)
Ammonium Nitrate	CAS: 6484-52-2 EC: 229-347-8	4%	 	Ox. Sol. 3, H272 Eye Dam/Irrit. 2, H319

Additional Information: The aqueous solution (original state of the product) is harmless. However, if crystallized, oxidizing effects may occur

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: If used properly, there should be no formation of harmful vapors.
Move person to fresh air.
Keep patient warm and at rest.
Get medical attention if symptoms occur.

Skin Contact: Wash off with plenty of water and soap.
Get medical attention if irritation develops or persists.

Eye Contact: Rinse opened eye for several minutes under running water.
Remove contact lenses and continue flushing.
Immediately call a poison centre or doctor/physician.



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Ingestion: Rinse out mouth and then drink plenty of water.
Never give anything by mouth to an unconscious person.
If babies/toddlers are concerned, always consult a physician or the local Poison Information Centre.
Seek medical advice, if symptoms occur or after swallowing large quantities

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

Inhalation of decomposition products may cause pulmonary edema
Symptoms may be delayed

4.3 Indication of any immediate medical attention and special treatment needed

Symptomatic treatment.

5. FIRE FIGHTING MEASURES

5.1 Extinguishing Media:

CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

Unsuitable Extinguishing Media:

High volume water jet.

5.2 Special hazards arising from the substance or mixture

In case of fire, the mixture can release Carbon dioxide (CO₂), Carbon monoxide (CO), Nitrogen oxides (NO_x) or Ammonia

5.3 Advice for Fire Fighters:

Wear full protective clothing and self-contained breathing apparatus. Contain contaminated run-off.

Further Information:

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.
Collect contaminated fire fighting water separately. It must not enter the sewage system.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal Precautions, Protective Equipment and Emergency Procedures:

Wear protective clothing.
Particular danger of slipping on leaked/spilled product.



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6.2 Environmental Precautions:

Do not allow to enter drains, sewers or any water course

Inform respective authorities in case of leakage into water course or sewage system.

Dilute with plenty of water.

The following information refers to the leakage of large quantities:

Do not allow to penetrate the ground/soil.

6.3 Methods and Materials for Containment and Cleaning Up:

Small quantities: If spilled/leaked: absorb main quantity with cloth.

Large quantities: Absorb with non-combustible material like sand, soil or diatomite.

Make sure to recycle or dispose of in suitable receptacles

6.4 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:

- The product is not flammable. However it is oxidizing when dry
- Select fire and explosion prevention measures according to the other substances stored/used
- Do not eat, drink or smoke when handling this product.
- Avoid contact with skin and eyes.
- No special precautions are necessary if used properly.

7.2 Conditions for safe storage, including any incompatibilities

Storage:

- Store in original containers, tightly closed at a cool and dry place with sufficient ventilation.
- Keep out of the reach of children.
- Keep away from food, drink and animal feed stuffs.
- Unsuitable material: Zinc
- Protect from contamination, frost and drying out.
- Minimum storage temperature: 5 °C

7.3 Specific End Uses: No further relevant information available.



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8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control Parameters

8.1.1 Occupational exposure limits: The product does not contain any relevant quantities of materials with critical values to be monitored at the workplace

8.1.2 Biological limit values: N/A

8.1.3 Exposure limits at intended use: N/A

8.1.4 DNEL/PNEC-values: N/A

8.1.5 Risk management measures according to used control banding approach: N/A

8.2 Exposure Controls

The usual precautionary measures should be adhered to when handling chemicals: avoid close or long term contact with skin; avoid contact with eyes.

The following instructions regarding the protective equipment refer to the industrial use of larger quantities.

8.2.1 Engineering Measures: Where necessary, seek additional occupational hygiene advice.

8.2.2 Personal protective equipment: The general personal protection measures of the chemical industry apply. The usual precautionary measures should be adhered to in the handling of the chemicals.

Respiratory Protection: Not required

Hand Protection: Not required for consumers if used according to the instruction on the label
Long term contact: protective gloves.
To avoid skin problems reduce the wearing of gloves to the required minimum.
After use of gloves apply skin-cleaning agents and skin cosmetics.

Eye Protection: If large quantities are handled: safety glasses are recommended during refilling

Skin and Body Protection: Protective work clothing

8.2.3 Environmental exposure: N/A



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9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance: Green liquid

Physical state: Liquid

Colour: Green

Odour: Odourless

Odour threshold: none

9.2 Other information:

	Value	Concentration	Method	Temperature	Pressure	Remark
pH	4.3-5.3	-	-	20°C	-	-
Melting point/freezing point	-	-	-	-	-	-
Initial boiling point/boiling range	105°C	-	-	-	-	-
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	1.15g/c m ³	-	-	20°C	-	-
Solubility(ies)	Fully miscible in water	-	-	-	-	-
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

Flammable aerosols

Justification for data waiving:

Safety characteristics:

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

Assessment / Classification: N/A

Flammable solids

Justification for data waiving:

Safety characteristics:

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

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: N/A

Other information: No further relevant information available.



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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 Hazardous Reactions: Hazardous reactions will not occur under normal transport or storage conditions.
Reacts with alkalis releasing ammonia
Fire hazard if water content dries out. Oxidising gases may be formed if the dry residue is heated

10.4 Conditions to Avoid: No further relevant information available.

10.5 Incompatible Materials: Strong alkalis.

10.6 Hazardous Decomposition: No hazardous decomposition products if instructions for storage and handling are followed.

11. TOXICOLOGICAL INFORMATION

Toxicokinetics, metabolism and distribution

11.1 Information on toxicological effects

11.1.1

Acute Toxicity

LD/LC50 values that are relevant for classification: no toxicity data are available for the product.

Skin Corrosion/Irritation: Irritation to skin and mucous membrane possible.

Eye Damage/Irritation: Light irritation possible.

Respiratory or Skin Sensitization: No sensitizing effects known.

CMR effects (carcinogenity, mutagenicity and toxicity for reproduction: No classification.

Aspiration hazard: No classification.

Additional information: none



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12. ECOLOGICAL INFORMATION

12.1 Toxicity:

Aquatic toxicity: Presently there are no ecotoxicological values available.

Sediment toxicity: None

Terrestrial toxicity: None

12.2 Persistence and Degradability: No further relevant information available.
The product is biodegradable.

12.3 Bioaccumulative Potential: No bioaccumulation to be expected.

12.4 Mobility in Soil: No further relevant information available.

12.5 PBT and vPvB assessment: Not applicable.

12.6 Other adverse effects Large quantities of nitrates reaching lakes and water courses can cause over-fertilization (eutrofication).
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product: Must not be disposed of together with household waste. Do not allow product to reach sewage system.
Must be recycled or disposed of according to the regulations. Waste has to be classified according to the European Waste Catalogue based on the identification of the waste generating source.
Product is used as a fertilizer. Check the possibility for agricultural use before landfilling.

Contaminated Packaging: Disposal must be made according to official regulations.
Non contaminated packagings can be used for recycling.



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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 known

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:
None known

15.1.2 National regulations

15.2 Chemical Safety Assessment: Chemical Assessments not undertaken for this material.



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16. OTHER INFORMATION

16.1 Indication of changes

16.2 Abbreviations and Acronyms

ADR	International Carriage of Dangerous Goods by Road
CAS No	Chemicals Abstract Service Registry Number
EC No	Directive 67/548/EEC
IATA-DGR	European Community Number for chemicals within EU regulations
IMDG Code	Dangerous Goods Regulations by the International Air Transport Association
PBT	International Maritime Dangerous Goods Code
Regulation (EC) No 1272/2008	Persistent, Bioaccumulative and Toxic Properties
RID	Classification, Labelling and Packaging (CLP)
vPvB	International Transport of Dangerous Goods by Rail
	Very Persistent and Very Bioaccumulative Properties

16.3 Key literature references and sources for data

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

CLP/GHS:	Eye Dam/ Irrit 2; Ox. Sol. 3,;	Eye damage/ Irritation, Category 2 Oxidising solids, Category 3
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16.5 Relevant R-, H- and EUH-phrases (number and full text):

H272	May intensify fire; oxidiser
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.



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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