

Safety Data Sheet

According to Regulation (EC) No 453/2010 (REACH)



Trade name: Resolva Zero RTU

Version:!
Revision date: 03.01.2018

Print date:03.01.2018

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

1.1 Product Identifier **Resolva Zero RTU** MAPP 18240

1.2 Relevant identified uses Herbicide

1.3 Details of the supplier of the safety data sheet:

Supplier
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) (24 hours)

2. HAZARDS IDENTIFICATION

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

Eye irritation: Category 2
H319 Causes serious eye irritation.

Additional information: Full text of H- and EUH-phrases: see SECTION 16.

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

Hazard Pictograms



Signal Word **Warning**

Hazard Statements

H319 Causes serious eye irritation.

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Supplemental Hazard information

EUH401 To avoid risks to human health and the environment, comply with the instructions for use.

Statements

EUH208 Contains 1,2-Benzisothiazol-3(2H)-one. May produce an allergic reaction.

Precautionary Statements

P101 – If medical advice is needed, have product container or label at hand
P102 – Keep out of reach of children
P264 – Wash skin thoroughly after handling
P270 – Do not eat, drink or smoke when using this product
P280 – Wear protective gloves / protective clothing / eye protection / face protection
P305 + P351 + P338 – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P337 + P313 – If eye irritation persists: Get medical advice / attention

Special rules for supplemental label elements for certain mixtures:

Additional labelling:

Adverse physicochemical effects: No information available

Adverse human health effects and symptoms: No information available

Adverse environmental effects: No information available

Other adverse hazards: No information available

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances N/A

3.2 Mixtures

Description Plant protection agent, Pesticide, Herbicide, Finished spray formulation

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Hazardous ingredients

Chemical Name	CAS-No. EC-No. Registration number	Concentration %W/W	Regulation (EC) No 1272/2008 (CLP)
Nonanoic acid	CAS: 112-05-0 EC:203-931-2 01-2119529247-37	<= 3.1%	Skin Irrit. 2; H315 Eye Irrit. 2; H319 Aquatic Chronic 3; H412
1,2-benzisothiazol- 3(2H)-one	CAS: 2634-33-5 EC:220-120-9	<= 0.05%	Acute Tox. 4; H302 Skin Irrit. 2; H315 Eye Dam. 1; H317 Skin Sens. 1; H317 Aquatic Acute 1; H400

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

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.
Remove contaminated clothing immediately and dispose of safely.

Inhalation: Move person to fresh air.
Keep patient warm and at rest.
Consult a physician for severe cases.

Skin Contact: Wash off with soap and plenty of water.
If symptoms persist, call a physician.

Eye Contact: Rinse several minutes cautiously with water: In case of contact with eyes. Remove contact lenses if possible. Continue rinsing. If eye irritation persists: Get medical advice / Get medical attention.

Ingestion: Clean mouth with water and drink afterwards plenty of water. Do NOT induce vomiting.
Consult a physician if necessary.

Self-protection of the first aider: Wear protective gloves

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4.2 Most important symptoms and effects, both acute and delayed

Symptoms: none expected

Effects: none expected

4.3 Indication of any immediate medical attention and special treatment needed

Information for doctor:

Treatment Treat symptomatically.

5. FIRE FIGHTING MEASURES

5.1 Extinguishing Media:

Use water spray, dry powder, foam, carbon dioxide (CO₂)

Unsuitable Extinguishing Media: Water jet.

5.2 Specific Hazards Arising From the Substance or Mixture:

In fire proximity toxic gases can form.

5.3 Advice for Fire Fighters:

Wear a positive-pressure supplied-air respirator with full face-piece. Complete suit protecting against chemicals.

Additional Information:

Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal Precautions, Protective Equipment and Emergency Procedures:

For non-emergency personnel

Protective equipment: safety glasses, protective gloves

Emergency procedures: Avoid contact with skin and eyes.

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For emergency responders

Personal protective equipment: safety glasses, protective gloves

6.2 Environmental precautions: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution.

6.3 Methods and material for containment and cleaning up

For containment and cleaning up: Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite).

Other information: Transfer to a container for disposal according to local / national regulations (see section 13) Check also for any local site procedures

6.4 Reference to other sections

Additional information: See Section 1 for emergency contact information.

See Section 7 for safe handling information.

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:

Protective measures:

- Avoid contact with eyes and skin.
- Do not eat, drink or smoke when using this product.
- Take off contaminated clothing and wash before reuse.
- Wash hands forearms and face and observe good hygiene practice after handling this product.
- Take notice of the directions of use on the label.

7.2 Conditions for safe storage, including any incompatibilities:

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- Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (See Section 10). Protect from freezing.
- Keep container tightly closed and sealed until ready for use.
- Containers that have been opened must be carefully resealed and kept upright to prevent leakage.
- Keep away from food, drink and animal foodstuffs.

7.3 Specific End Uses:

Use as herbicide according to the instruction on the label.

8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Preventive industrial medical examinations are to be carried out.

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)	nonanoic acid	203-931-2	112-05-0				20 mg/m ³	Syngenta

8.1.2 Biological limit values:

Limit value type (country of origin)	Substance name	EC-No.	CAS-No.	Limit Value	Parameter	Test material	Test date	Source
OEL (EU)	nonanoic acid	203-931-2	112-05-0	No data	No data	No data	No data	No data

8.1.3 Exposure limits at intended use:

DNEL type	Value	Remark
Acute – dermal, local effects	No data	No data
Long-term – dermal, local effects	No data	No data
Long-term – dermal, systemic effects	No data	No data
Acute – inhalation, local effects	No data	No data

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Acute – inhalation, systemic effects	58.8 mg/m³	None
Long-term – inhalation, local effects	No data	No data
Long-term – inhalation, systemic effects	No data	No data

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DNEL Consumer:

DNEL type	Value	Remark
Long-term – oral, systemic effects	No data	No data
Acute – dermal, local effects	No data	No data
Long-term – dermal, local effects	No data	No data
Long-term – dermal, systemic effects	No data	No data
Acute – inhalation, local effects	No data	No data
Acute – inhalation, systemic effects	No data	No data
Long-term – inhalation, local effects	No data	No data
Long-term – inhalation, systemic effects	No data	No data

PNEC

PNEC type	Value	Remark
PNEC aquatic, freshwater	No data	No data
PNEC aquatic, marine water	0.036 mg/l	None
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

Control banding for chemicals according to the ILO CHEMICAL CONTROL TOOLKIT (ICCT)

Task	Hazard band	Scale of use	Ability to become airborne	Control approach	Control guidance sheet
N/A					
N/A					
N/A					

8.2 Exposure Controls

8.2.1 Appropriate Engineering Controls: Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

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8.2.2 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 to avoid mists, gases or dusts. When selecting personal protective equipment, seek appropriate professional advice. Personal protective equipment should be certified to appropriate standards.

Eye Protection: Wear splash goggles (conforming to EN166)

Skin and Body Protection: Wearing of closed work clothing is recommended.

Hand Protection: Wear protective gloves complying with EN 374 (butyl-rubber, Chloroprene, PVC) when handling the product over long periods or if a risk assessment indicates this is necessary.

Respiratory Protection: Ensure thorough ventilation of stores and work areas. Avoid inhalation of vapour.

Environmental exposure controls: Do not flush into surface water or sanitary sewer system.

9 PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance: Milky white liquid

Physical state: Liquid

Colour: Milky white

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Odour: Characteristic

Odour threshold: None

9.2 Other information:

	Value	Concentration	Method	Temperature	Pressure	Remark
pH	4.2-5.2	No data	No data	20°C	No data	No data
Melting point/freezing point	No data	No data	No data	No data	No data	No data
Initial boiling point/boiling range	No data	No data	No data	No data	No data	No data
Flash point	No data	No data	No data	No data	No data	No data
Evaporation rate	No data	No data	No data	No data	No data	No data
Flammability (solid, gas)	No data	No data	No data	No data	No data	No data
Upper/lower flammability or explosive limits	No data	No data	No data	No data	No data	No data
Upper explosive limits	No data	No data	No data	No data	No data	No data
Lower explosive limits	No data	No data	No data	No data	No data	No data
Vapour pressure	No data	No data	No data	No data	No data	No data
Vapour density	No data	No data	No data	No data	No data	No data
Relative density	0.9958g/ml	No data	No data	20°C	No data	No data
Solubility(ies)	0.8g/l	No data	No data	20°C	No data	No data
Partition coefficient: n-octanol/water	No data	No data	No data	No data	No data	No data
Auto-ignition temperature	No data	No data	No data	No data	No data	No data
Decomposition temperature	No data	No data	No data	No data	No data	No data
Viscosity	No data	No data	No data	No data	No data	No data
Viscosity, dynamic	No data	No data	No data	No data	No data	No data
Viscosity, cinematic	No data	No data	No data	No data	No data	No data
Explosive properties	No data	No data	No data	No data	No data	No data
Oxidising properties	No data	No data	No data	No data	No data	No data

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Physical hazards: None known

Flammable aerosols

Justification for data waiving:

Safety characteristics:

	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: Based on data available, classification is not required

Flammable solids

Justification for data waiving:

Safety characteristics:

	Value	Method	Remark
Burning rate	No data	No data	No data
Burning rate with wetted zone	No data	No data	No data
Moisture content	No data	No data	No data

Assessment / Classification: Does not ignite

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Oxidising solids

Justification for data waiving:

Safety characteristics:

	Value	Method	Remark
Preliminary test	No data	No data	No data
Mean burning time of test mixture	No data	No data	No data
Mean burning time of reference mixture	No data	No data	No data

Assessment / Classification: Based on data available, no classification is required.

10 STABILITY AND REACTIVITY

10.1 Reactivity: No known reactions

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

10.3 Possibility of Hazardous Reactions: No hazardous reactions if stored and handled as instructed

10.4 Conditions to Avoid: None known.

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10.5 Incompatible Materials: No substances known that should be avoided.

10.6 Hazardous Decomposition: No decomposition products expected under normal conditions of use

11 TOXICOLOGICAL INFORMATION

SECTION 11: Toxicological Information

Toxicokinetics, metabolism and distribution

11.1 Information on toxicological effects

11.1.1 Substances

Acute toxicity

Practical experience / human evidence: None

Animal data:

Acute Oral Toxicity: LD50 (rat) ca. > 2000 mg/kg

The product was not tested. The statements were derived from products of similar structure and composition.

Acute Inhalation Toxicity: LC50 (rat) > 5.1 mg/l

Method: Acute Inhalation Toxicity

Acute Dermal Toxicity: LC50 Dermal (rat) > 2000 mg/l

Information given is based on data obtained from similar substances.

Other information: Information given is based on data obtained from similar substances.

Assessment / Classification: Based on the data available, no classification is required

Skin corrosion/irritation

Practical experience / human evidence:

Acid-/Alkali reserve (buffer capacity for mixtures with extreme pH values)

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Acidic reserve [g NaOH/100 g product]: no data

Alkaline reserve [g H₂SO₄/100 g product]: no data

Animal data: Contact with skin causes irritation (rabbit).

Information given is based on calculated data obtained from similar substances.

In-vitro skin test: No data

Other information: No data

Assessment / Classification: Causes skin irritation

Eye damage/irritation

Practical experience / human evidence: None

Animal data: Contact with eyes causes irritation (rabbit).

Information given is based on calculated data obtained from similar substances.

In vitro eye test: No data

Other information: no data

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

Sensitisation to the respiratory tract/skin: Does not cause skin sensitization.

Information given is based on data obtained from similar substances.

Sensitisation to the respiratory tract : Does not cause skin sensitization.

Information given is based on data obtained from similar substances.

Practical experience / human evidence: No data

Other information:

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

Skin sensitisation

Practical experience / human evidence: Does not cause skin sensitization.

Information given is based on data obtained from similar substances

Animal data: no data

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Other information: none

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

CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)

Reproductive toxicity

Practical experience / human evidence: None

Animal data

Adverse effects on sexual function and fertility: No data

Adverse effects on developmental toxicity: No data

Effects on or via lactation: No data

Other information: Contains no ingredient listed as mutagenic effects or toxic to reproduction.

Assessment / Classification: The mixture is not classified as specific target organ toxicant, single exposure or repeated exposure.

Overall assessment on CMR properties: Contains no ingredient listed as mutagenic effects or toxic to reproduction.

Aspiration hazard

Practical experience / human evidence:No data available.

Experimental data: No data.

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

Symptoms related to the physical, chemical and toxicological characteristics:

In case of ingestion: See Section 4 of this data sheet

In case of skin contact: See section 4 of this data sheet

In case of inhalation: See section 4 of this data sheet

In case of eye contact: See section 4 of this data sheet

Other information: No information available.

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12 ECOLOGICAL INFORMATION

12.1 Toxicity

Aquatic Toxicity:

Acute (short-term) fish toxicity: LC50 (Oncorhynchus mykiss (rainbow trout)) = 86.8 mg/l

Exposure time: 96 h

Remarks: The product is a dilution in water of Mixture A < 25%

Chronic (long-term) fish toxicity: No data

Acute (short-term) toxicity to crustacea: No data

Chronic (long-term) toxicity to crustacea: No data

Acute (short-term) toxicity to algae and cyanobacteria: IC50 (Pseudokirchneriella subcapitata (green algae)) = 40.1 mg/l

Exposure time: 72h

Remarks: The product is a dilution in water of Mixture A < 25%

Toxicity To Bacteria: No information available.

Toxicity to other aquatic plants / organisms: EC50 (Water flea (Daphnia magna)) = 141 mg/l

Exposure time: 48 h

Remarks: The product is a dilution in water of Mixture A < 25%

Toxicity to microorganisms: No information available

Sediment toxicity: No data

Terrestrial toxicity: No data

Toxicity to soil macro-organisms except arthropods: No data

Toxicity to terrestrial arthropods: No data

Toxicity to terrestrial plants: No data

Toxicity to birds: No data

Assessment / Classification: Based on lack of data no classification is possible

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12.2 Persistence and degradability

Biodegradation: Readily biodegradable.

Abiotic Degradation: No information available

Assessment / Classification: Based on the data available no classification can be made

12.3 Bioaccumulative potential: No bioaccumulation is to be expected.

Bioconcentration factor (BCF)

Assessment / Classification: Based on the data available, no classification is required

12.4 Mobility in soil: Groundwater contamination is unlikely.

Assessment / Classification: No Classification required

12.5 Results of PBT and vPvB assessment: Not applicable

12.6 Other adverse effects:

Additional ecotoxicological information: No information available

Results of PBT and vPvB assessment:

Not applicable

Other Dangerous Effects: None

13 DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

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Product:

The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. It must undergo special treatment, e.g. at suitable disposal site, to comply with local regulations.

This material must be disposed of in a safe way.

Contaminated Packaging: The generation of waste should be avoided or minimized wherever possible. Empty containers should be taken to an approved waste handling site for recycling or disposal.

The container must be disposed of in a safe way.

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

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

Additional information

All transport carriers

Land transport (ADR/RID)

Limited quantity: N/A
Special provisions: N/A
Tunnel restriction code: N/A
Classification code: N/A
Transport category: N/A
Hazard identification number (Kemler No.): N/A
Remark:

Inland waterway transport (ADN)

Limited quantity: N/A
Special provisions: N/A
Category: N/A
Remark: N/A

Sea transport (IMDG)

Limited quantity: N/A
Special provisions: N/A
Marine pollutant: N/A
Segregation group: N/A
Remark: N/A

Air transport (ICAO-TI / IATA-DGR)

Limited quantity: N/A
Special provisions: N/A
Remark: N/A

15 REGULATORY INFORMATION

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

15.1.1 EU regulations

Authorisations: MAPP 18240

Restrictions on use: Use only as herbicide

Other EU regulations: Not applicable

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Directive 2010/75/EC on industrial emissions: Not applicable

Regulation (EC) No. 842/2006 on certain fluorinated greenhouse gases: Not applicable

15.1.2 National regulations

Dispose of contents and container see Section 13

15.2 Chemical Safety Assessment:

For this substance a chemical safety assessment is not required.

16 OTHER INFORMATION

16.1 Indication of changes : None

16.2 Abbreviations and acronyms:

ADR	International Carriage of Dangerous Goods by Road
ASTM	American Society for the Testing of Materials
CAS No	Chemicals Abstract Service Registry Number
CLP	Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]
DIN	Standard of the German Institute for Standardisation
DNEL	Derived no Effect Level
DMEL	Derived Minimal Effect Level
EC No	European Community Number for chemicals within EU regulations
IATA-DGR	Dangerous Goods Regulations by the International Air Transport Association
IC50	Half maximal inhibitory concentration
LC50	Lethal Concentration to 50% of a test population
LD50	Lethal Dose to 50% of a test population (Median Lethal Dose)
IMDG Code	International Maritime Dangerous Goods Code
PBT	Persistent, Bioaccumulative and Toxic Properties
vPvB	Very Persistent and Very Bioaccumulative
REACH	Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the registration, Evaluation, Authorisation and restriction of Chemicals
RID	International Transport of Dangerous Goods by Rail
SDS	Safety Data Sheet
vPvB	Very Persistent and Very Bioaccumulative Properties

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16.3 Key literature references and sources for data: Syngenta

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

16.5 Relevant R-, H- and EUH-phrases (number and full text):

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

H302 Harmful if swallowed.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H400 Very toxic to aquatic life.
H411 Toxic to aquatic life with long lasting effects.

16.6 Training advice: Follow the instructions as per label

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.