



# Safety Data Sheet

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

Trade name: Deadfast Ant Killer Plus Spray  
Version: 1.0

Revision date: 09.09.2019

Print date: 09.09. 2019

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

### 1.1 Product Identifier

**Name** Deadfast Ant Killer Plus Spray

**1.2 Relevant Identified Uses of the Mixture:** Home and garden insecticide

### 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](mailto: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:

|                 |      |  |
|-----------------|------|--|
| Aquatic Acute 1 | H400 | Very toxic to aquatic life                           |
| Aquatic Chr 1   | H410 | Very toxic to aquatic life with long lasting effects |

**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 GHS09 – Environmentally damaging

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Signal Word

Warning



Hazard Statements

H400 Very toxic to aquatic life

H410 Very toxic to aquatic life with long lasting effects

Precautionary Statements

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

P102 Keep out of reach of children

P103 Read label before use

P273 Avoid release to the environment

P391 Collect spillage

P501 Dispose of contents/container to an approved waste disposal plant

Supplemental Information

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

**Special rules for supplemental label elements for certain mixtures:** None

**Additional labelling:** None

**2.3 Other hazards:** None

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

**3.1 Substances** N/A

**3.2 Mixtures**

**Description** Ready to Use insecticide containing 0.5% w/w lambda-cyhalothrin (micro-encapsulated)

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## Hazardous Ingredients

| Ingredient                              | Identifiers                      | Concentration %W/W | Warning Symbols   | Regulation (EC) No 1272/2008 (CLP)   |
|---|----------------------------------|--------------------|---|--|
| Lambda-cyhalothrin (micro-encapsulated) | EC: 415-130-7<br>CAS: 91465-08-6 | 0.5% W/W           |   | Acute Tox. 3; H301, H311<br>Acute Tox. 2; H330<br>Aquatic Acute 1; H400<br>Aquatic Chr. 1; H410                |
| 1,2 - benzisothiazol-3(2H)-one          | EC: 220-120-9<br>CAS: 2634-33-5  | 0.05% W/W          |   | Acute Tox. 4; H 302<br>Skin. Irrit. 2; H315<br>Eye Dam. 1; H317<br>Skin Sens. 1; H317<br>Aquatic Acute 1; H400 |

**Additional Information** For the full text of the H Statements mentioned in this section, see section 16.

## 4. FIRST AID MEASURES

### 4.1 Description of first aid measures

**General Advice:** Have the product container, label or Material Safety Data Sheet with you when calling a poison control center or doctor, or going for treatment

**Inhalation:** Move person to fresh air  
Get medical attention if adverse health effects persist or are severe

**Skin Contact:** Wash contaminated skin with plenty of soap and water  
If skin irritation persists avoid further exposure and get medical attention

**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  
Clean mouth with water and drink plenty of water afterwards  
Get medical attention

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

No information available

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## 4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically

## 5. FIRE FIGHTING MEASURES

### 5.1 Suitable Extinguishing Media:

The product is not combustible  
Use water spray, fog or mist, alcohol-resistant foam dry chemical or carbon dioxide

### 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 Special Protective Equipment for Fire Fighters:

Wear full protective clothing and self-contained breathing apparatus if necessary

### Further Information:

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

No special precautions required. Avoid contact with skin eyes and clothing

### 6.2 Environmental Precautions:

Prevent further leakage or spillage if safe to do so.  
Do not flush into surface water or sanitary sewer system

### 6.3 Methods and Materials for Containment and Cleaning Up:

Use mechanical handling equipment  
Prevent further leakage or spillage  
Wipe up with absorbent material ( e.g cloth, fleece)  
After cleaning flush traces away with water.

### 6.4 Reference to other sections

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



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## 7. HANDLING AND STORAGE

### 7.1 Precautions for safe handling

#### Protective measures

- Avoid contact with skin, eyes and clothing
- When using do not eat, drink or smoke
- Wash hands thoroughly after work
- Do not breathe vapour or mist

### 7.2 Storage:

- 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 away from oxidizing agents, strong acids and strong bases.
- Store in original container protected from direct sunlight
- Store between 5-30°C

### 7.3 Specific End Uses:

Use only as an insecticide

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### 8.1 Control Parameters:

#### 8.1.1 Occupational exposure limits:

| Component(s)       | Exposure Limit(s)           | Type of exposure limit | Source   |
|--------------------|-----------------------------|------------------------|----------|
| Lambda Cyhalothrin | 0.04 mg/m <sup>3</sup> skin | 8 h TWA                | Syngenta |

8.1.2 Biological limit values: N/A

8.1.3 Exposure limits at intended use: N/A



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**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

**8.2.1 Appropriate engineering controls:** 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 vapours 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.

### 8.2.2 Personal protective equipment:

#### Eye / Face protection:

Safety glasses/goggles should be used if a risk assessment indicates it is necessary to avoid splashes, mists or gases  
Follow any site specific eye protection policies

#### Skin protection:

**Hand protection:** Chemical resistant, impervious gloves should be used if a risk assessment indicates it is necessary. Suitable material: PVC, Nitrile rubber

**Body protection:** Long sleeved clothing is recommended

**Other skin protection measures:** Wash with soap and water after removing protective clothing  
Decontaminate clothing before re-use, or use disposable equipment (suits, aprons, sleeves, boots, etc)  
Ensure that eyewash stations and safety showers are close to the workstation

**Respiratory protection:** No personal respiratory protective equipment normally required.  
A particulate filter respirator may be necessary until effective technical measures are installed.

**Thermal hazards:** N/A

**8.2.3 Environmental exposure controls:** Steps should be taken to ensure that this product is not released accidentally into the environment



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**Consumer exposure control:** None

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

**Appearance:** Off-white liquid

**Physical state:** Liquid

**Colour:** Off-white

**Odour:** sweet

**Odour threshold:** none

### 9.2 Other information:

|  | Value                  | Concentration | Method | Temperature | Pressure | Remark |
|--|------------------------|---------------|--------|-------------|----------|--------|
| pH   | 5.6                    | -             | -      | 20°C        | -        | -      |
| Melting point/freezing point                 | -                      | -             | -      | -           | -        | -      |
| Initial boiling point/boiling range          | -                      | -             | -      | -           | -        | -      |
| Flash point                                  | >100°C                 | -             | -      | 20°C        | -        | -      |
| Evaporation rate                             | -                      | -             | -      | -           | -        | -      |
| Flammability (solid, gas)                    | -                      | -             | -      | -           | -        | -      |
| Upper/lower flammability or explosive limits | -                      | -             | -      | -           | -        | -      |
| Upper explosive limits                       | -                      | -             | -      | -           | -        | -      |
| Lower explosive limits                       | -                      | -             | -      | -           | -        | -      |
| Vapour pressure                              | -                      | -             | -      | -           | -        | -      |
| Vapour density                               | -                      | -             | -      | -           | -        | -      |
| Relative density                             | 1.005 g/m <sup>3</sup> | -             | -      | 20°C        | -        | -      |



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|  |                    |   |   |      |   |   |
|--|--------------------|---|---|------|---|---|
| Solubility(ies)                        | Completely soluble | - | - | -    | - | - |
| Partition coefficient: n-octanol/water | -                  | - | - | -    | - | - |
| Auto-ignition temperature              | >650°C             | - | - | -    | - | - |
| Decomposition temperature              | -                  | - | - | -    | - | - |
| Viscosity                              | -                  | - | - | -    | - | - |
| Viscosity, dynamic                     | 1.1mPa             | - | - | 20°C | - | - |
| Viscosity, cinematic                   | -                  | - | - | -    | - | - |
| Explosive properties                   | -                  | - | - | -    | - | - |
| Oxidising properties                   | -                  | - | - | -    | - | - |

Physical hazards: None

## 10. STABILITY AND REACTIVITY

**10.1 Reactivity** None known. Hazardous polymerization does not occur.

**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:** Protect from frost, heat and sunlight

**10.5 Incompatible materials:** Strong acids and strong bases

**10.6 Hazardous Decomposition products:** In case of fire, decomposition products may be produced, such as Carbon dioxide, Carbon monoxide, oxides of Nitrogen, dense black smoke.

## 11. TOXICOLOGICAL INFORMATION

### Toxicokinetics, metabolism and distribution

#### 11.1 Information on toxicological effects

The toxicological data has been calculated, this product has not been tested



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## 11.1.1 Substances

### Acute toxicity

**Practical experience / human evidence:** None expected

**Animal data:** LD50 Median lethal dose rat, >2,000 mg/kg

**Other information:** none

**Assessment / Classification:** based on the available data no classification required

### Skin corrosion/irritation

**Practical experience / human evidence:** Not expected to be irritating to the skin

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

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

Alkaline reserve [g H<sub>2</sub>SO<sub>4</sub>/100 g product]: no data

**Animal data:** LD50 Median lethal dose rat, >2,000 mg/kg

**In-vitro skin test:** no data

**Other information:** None

**Assessment / Classification:** based on the available data no classification required

### Eye damage/irritation

**Practical experience / human evidence:** Not expected to be irritating to the eyes

**Animal data:** none

**In vitro eye test:** no data

**Other information:** none

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

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**Sensitisation to the respiratory tract/skin:** Not expected to be sensitising

**Sensitisation to the respiratory tract :** Not expected to be sensitising

**Practical experience / human evidence:** None

**Other information:** None

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

## **Skin sensitisation**

**Practical experience / human evidence:** Not expected to be sensitising

**Other information:** None

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

## **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**

None of the components in this product are known to be mutagenic, carcinogenic or toxic to reproduction and development

## **Reproductive toxicity**

**Practical experience / human evidence:** None

### **Animal data**

Adverse effects on sexual function and fertility: None

Adverse effects on developmental toxicity: None

Effects on or via lactation: None

**Other information:** None

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

**Other information:** None



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## 12. ECOLOGICAL INFORMATION

This product has not been tested. Toxicity data based on Lambda cyhalothrin and 1,2-benzisothiazol-3(2H)-one

### 12.1 Toxicity

#### Components:

#### Lambda cyhalothrin

Toxicity to fish: LC50 (Oncorhynchus mykiss (rainbow trout)): 0.00044mg/l  
Exposure time: 96h

Toxicity to daphnia and other aquatic invertebrates EC50 (Daphnia magna (water flea)): 0.00036mg/l  
Exposure time 48h

Toxicity to algae ErC50 (Pseudokirchneriella subcapitata (microalgae)) :>1mg/l  
Exposure time 96h

#### 1,2 benzisothiazol-3(2H)-one

Toxicity to fish: LC50 (Oncorhynchus mykiss (rainbow trout)): 2.18mg/l  
Exposure time: 96h

Toxicity to daphnia and other aquatic invertebrates EC50 (Daphnia magna (water flea)): 2.9mg/l  
Exposure time 48h

Toxicity to algae ErC50 (Pseudokirchneriella subcapitata (microalgae)) :0.11mg/l  
Exposure time 972h

### 12.2 Persistence and degradability

#### Components:

Lambda cyhalothrin Biodegradability: not readily biodegradable

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## 12.3 Bioaccumulative potential

### Components:

Lambda cyhalothrin: Potential for bioaccumulation

1,2 benzisothiazol-3(2H)-one Species: Lepomis macrochirus( Bluegill sunfish)  
Bioconcentration factor (BCF): 6.95

## 12.4 Mobility in soil

### Components:

Lambda-cyhalothrin: Mobility : Medium: Soil  
Remarks: immobile

## 12.5 Results of PBT and vPvB assessment :

**Product:** Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

**Components:** Lambda-cyhalothrin: Assessment : This substance is not considered to be very persistent and very bioaccumulating (vPvB).

## 12.6 Other adverse effects: No data

**Additional ecotoxicological information:** No data

## 13. DISPOSAL CONSIDERATIONS

### 13.1 Waste Treatment Methods

#### Product / Packaging disposal:

**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.

**Waste codes / waste designations according to EWC / AVV:** No data



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**Contaminated Packaging:** Completely empty containers can be put in the bin or disposed of in compliance with applicable local regulations.  
Do not reuse empty containers.

**Waste treatment options:** No data

**Other disposal recommendations:** No data

**Additional information:** No data

## 14. TRANSPORT INFORMATION

### SECTION 14: Transport Information

|  | Land transport (ADR/RID)   | Inland waterway transport (ADN)  | Sea transport (IMDG)   | Air transport (ICAO-TI / IATA-DGR)                                       |
|--|--|--|--|--|
| <b>14.1 UN No.</b>                     | UN 3082  | UN 3082  | UN 3082  | UN 3082  |
| <b>14.2 UN Proper shipping name</b>    | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (LAMBDA-CYHALOTHRIN) | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (LAMBDA-CYHALOTHRIN) | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (LAMBDA-CYHALOTHRIN) | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (LAMBDA-CYHALOTHRIN) |
| <b>14.3 Transport hazard class(es)</b> | 9  | 9  | 9  | 9  |
| <b>Hazard label(s)</b>                 | 90   | N/A  | F-A, S-F   | N/A  |
| <b>14.4 Packing group</b>              | III  | III  | III  | III  |
| <b>14.5 Environmental hazards</b>      | Environmentally hazardous  | Marine pollutant   | Marine pollutant   | N/A  |

**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**

## 15. REGULATORY INFORMATION



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## 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

### 15.1.1 EU regulations

#### Authorisations and/or restrictions on use:

Registration Numbers: UK-xxxx-xxx IE/BPA-xxxxx

#### Other EU regulations:

Directive 2010/75/EC on industrial emissions: N/A

Regulation (EC) No. 842/2006 on certain fluorinated greenhouse gases. N/A

### 15.1.2 National regulations

## 15.2 Chemical Safety Assessment:

For this substance a chemical safety assessment is not required.

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

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

Contains: Lambda-cyhalothrin

Chemical Safety Assessment: A Chemical Safety Assessment is not required for this mixture

## 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                                 |
| 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                                |
| MAPP                         | Ministerially Approved Pesticide Product                                   |
| 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                        |



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**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).

## Full text of Classifications

- **CLP/GHS:**
  - Acute Tox. : Acute toxicity
  - Aquatic Acute : Acute aquatic toxicity
  - Aquatic Chronic : Chronic aquatic toxicity
  - Eye Dam. : Serious eye damage
  - Skin Irrit. : Skin irritation
  - Skin Sens. : Skin sensitisation
  - SYNGENTA (MSDS) : SYNGENTA (MSDS)
  - SYNGENTA (MSDS) / TWA : Limit Value - eight hours

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

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

- H301 : Toxic if swallowed.
- H302 : Harmful if swallowed.
- H311 : Toxic in contact with skin.
- H315 : Causes skin irritation.
- H317 : May cause an allergic skin reaction.
- H330 : Fatal if inhaled.
- H400 : Very toxic to aquatic life.
- H410 : Very toxic to aquatic life with long lasting effects.

**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:



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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.