

Safety Data Sheet

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



Trade name: Resolva Bug Killer RTU

Version: 1.0 Revision date: 09.02.2018

Print date: 09.02.2018

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

1.1 Product Resolva Bug Killer RTU

1.2 Relevant identified uses Ready to use 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

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:

Aquatic Chr 2 H411 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



Signal Word Warning

Hazard Statements H411 Toxic to aquatic life with long lasting effects

Precautionary Statements

P273 Avoid release to the environment

P391 Collect spillage

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

2.3 Other hazards: none

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3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances: N/A

3.2 Mixtures

Description Insecticide containing 0.015 g/l lambda cyhalothrin as a ready to use solution

Hazardous Ingredients

Ingredient	Identifiers	Concentration %W/W	Warning Symbols	Directive 67/548/EEC	Regulation (EC) No 1272/2008 (CLP)
Lambda cyhalothrin	EC: 415-130-7 CAS: 91465-08-6	0.0015% W/W	 	T+; R21, R25, R26 N; R50/53	Acute Tox. 3; H301, H311 Acute Tox. 2; H330 Aquatic Acute 1; H400 Aquatic Chr. 1; H410

Additional information:

For the full text of the H statements and R phrases mentioned in this section, see section 16.

4. FIRST AID MEASURES

4.1 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.
If breathing is irregular or stopped, administer artificial respiration.
Keep patient warm and at rest.
Call a physician or Poison Control Centre immediately.

Skin Contact: Take off all contaminated clothing and shoes immediately.
Wash off immediately with plenty of water.
If skin irritation persists call a physician.
Wash contaminated clothing before re-use.

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

Ingestion: If swallowed seek medical advice immediately and show container or label.
Do NOT induce vomiting.

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

Skin contact paresthesia effects (itching, tingling, burning or numbness) are transient, lasting up to 24 hours

4.3 Indication of any immediate medical attention and special treatment needed Treatment :

Treat symptomatically

5. FIRE FIGHTING MEASURES

5.1 Extinguishing Media:

Extinguishing media – small fires: Use water spray, alcohol-resistant foam dry chemical or carbon dioxide

Extinguishing media – large fires: Alcohol resistant foam or Water spray

Unsuitable extinguishing media: Do not use a solid water stream as it may scatter and spread fire.

5.2 Special hazards arising from the substance or mixture:

As the product contains combustible organic components, fire will produce dense black smoke containing hazardous products of combustion (see section 10).

Exposure to decomposition products may be a hazard to health

5.3 Advice for Fire Fighters:

Wear full protective clothing and self-contained breathing apparatus.

Additional information:

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

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.

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:

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

Reference to other sections: 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

Handling:

- No special protective measures against fire required.
- Avoid contact with skin, eyes and clothing
- When using do not eat, drink or smoke
- Wash hands thoroughly after work

7.2 Conditions for safe storage, including any incompatibilities

- No special storage conditions required
- 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

7.3 Specific End Uses:

Use only as insecticide according to the instruction on the label

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 ³ skin	8 h TWA	SYNGENTA

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

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8.2 Exposure Controls

8.2.1 Appropriate engineering controls:

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:

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 until effective technical measures are installed.

Hand Protection:

Chemical resistant gloves should be used.

Suitable material: Nitrile rubber

Eye Protection:

Eye protection is not usually required

Follow any site specific eye protection policies

Skin and Body Protection:

Assess the exposure and select chemical resistant clothing based on the potential for contact and permeation/penetration characteristics of the clothing material.

Wash with soap and water after removing protective clothing

Decontaminate clothing before re-use, or use disposable equipment (suits, aprons, sleeves, boots, etc) Wear as appropriate: impervious protective suit

8.2.3 Environmental exposure controls: Keep away from ponds and water courses

Consumer exposure control: none required

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance: clear liquid

Physical state: slightly turbid liquid

Colour: clear

Odour: sweetish

Odour threshold: none known

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9.2 Other information:

	Value	Concentration	Method	Temperature	Pressure	Remark
pH	4.0-4.5 % w/v	-	-	25°C	-	-
Melting point/freezing point	-	-	-	-	-	-
Initial boiling point/boiling range	-	-	-	-	-	-
Flash point	>100°C	-	-	-	-	-
Evaporation rate	-	-	-	-	-	-
Flammability (solid, gas)	-	-	-	-	-	-
Upper/lower flammability or explosive limits	-	-	-	-	-	-
Upper explosive limits	-	-	-	-	-	-
Lower explosive limits	-	-	-	-	-	-
Vapour pressure	-	-	-	-	-	-
Vapour density	-	-	-	-	-	-
Relative density	1.0g/ml	-	-	20°C	-	-
Solubility(ies)	-	-	-	-	-	-
Partition coefficient: n-octanol/water	-	-	-	-	-	-
Auto-ignition temperature	>650°C	-	-	-	-	-
Decomposition temperature	-	-	-	-	-	-
Viscosity	29.6mN/m	-	-	20°C	-	-
Viscosity, dynamic	-	-	-	-	-	-
Viscosity, cinematic	-	-	-	-	-	-
Explosive properties	N/A	-	-	-	-	-
Oxidising properties	N/A	-	-	-	-	-

Physical hazards:

Flammable and spray aerosols: Testing is not required for foam or spray aerosols.

Flammable and Oxidising solids: N/A

10. STABILITY AND REACTIVITY

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10.1 Reactivity: Product stable under normal conditions of use and storage

10.2 Chemical stability: Product stable under normal conditions of use and storage

10.3 Possibility of hazardous reactions: Hazardous polymerization does not occur.

10.4 Conditions to avoid: Avoid naked flames

10.5 Incompatible materials: None known

10.6 Hazardous decomposition products: Combustion or thermal decomposition will evolve toxic and irritant vapours

11. TOXICOLOGICAL INFORMATION

Toxicokinetics, metabolism and distribution

11.1 Information on toxicological effects

Information given is based on data on the components and the toxicology of similar products

Acute toxicity

Acute Oral Toxicity: LD50 Median lethal dose female rat, >2,000 mg/kg

Acute Inhalation Toxicity: LC50 Median lethal concentration male and female rat, >6.60 mg/l, 4h

Acute Dermal Toxicity: LD50 Median lethal dose male and female rat, >5,000 mg/kg

Skin Corrosion/Irritation: Rabbit: Slightly Irritating
May cause temporary itching, tingling, burning or numbness of exposed skin called paresthesia

Eye damage/Irritation: Rabbit: Mildly Irritating

Respiratory or Skin Sensitization: Buehler test guinea pig: not a skin sensitizer in animal tests.

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CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction):

Lambda cyhalothrin did not show mutagenic, carcinogenic or reproductive toxicity effects in animal experiments.

Other information: No adverse effect has been observed in chronic toxicity tests

12. ECOLOGICAL INFORMATION

12.1 Toxicity

The toxicity data is based on test results obtained with similar products

Aquatic toxicity

- **Toxicity To Fish:** LC50 *Oncorhynchus mykiss* (rainbow trout), 100 mg/l, 96h
- **Toxicity To Aquatic Invertebrates:** EC50 *Daphnia magna* (water flea), 9 mg/l, 48h
- **Toxicity To Aquatic Plants:** Lambda cyhalothrin:
 - EbC50 *Pseudokirchneriella subcapitata* (green algae), >1 mg/l, 96 h
 - ErC50 *Pseudokirchneriella subcapitata* (green algae), >1 mg/l, 96 h

Sediment toxicity: N/A

Terrestrial toxicity: N/A

12.2 Persistence and Degradability

- **Biodegradability:** Lambda cyhalothrin is not biodegradable
- **Stability in Water:** Lambda cyhalothrin : Degradation half life: 7 d. Not persistent in water.
- **Stability in Soil:** Lambda cyhalothrin : Degradation half life: 56 d. Not persistent in soil.

12.3 Bioaccumulative Potential: Lambda cyhalothrin bioaccumulates

12.4 Mobility in Soil: Lambda cyhalothrin is immobile in soil

12.5 Results of PBT and vPvB assessment: Lambda cyhalothrin is not identified as PBT nor vPvB substance

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12.6 Other adverse effects: Classification of the product is based on the summation of the concentrations of classified components

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 spray 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.

14 TRANSPORT INFORMATION

SECTION 14: Transport Information

	Land transport (ADR/RID)	Inland waterway transport (ADN)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
14.1 UN No.	UN 3082	UN 3082	UN 3082	Un 3082
14.2 UN Proper shipping name	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
14.3 Transport hazard class(es)	9	9	9	9
Hazard label(s)	III	III	III	III
14.4 Packing group	9	9	9	9
14.5 Environmental hazards	Environmentally hazardous	Marine Pollutant	Marine Pollutant	-

14.6 Special precautions for user: None

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

Additional information

Special precautions for user: None

15 REGULATORY INFORMATION

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

15.1.1 EU regulations

Registration Numbers: MAPP 16221
PCS 04077

Contains: Lambda Cyhalothrin

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

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
MAPP	Ministerially Approved Pesticide Product
PCS	Pesticide Control Service
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 : Syngenta

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16.4 Classification for mixtures and used evaluation method according to regulation (EC) 1207/2008 [CLP]: See SECTION 2

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

H301	Toxic if swallowed
H311	Toxic in contact with skin
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 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.