

Safety Data Sheet

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



Trade name: Resolva Path & Drive weedkiller RTU
Version:1.0 Revision date: 13.09.2019

Print date:13.09.2019

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

1.1 Product Resolva Path & Drive weedkiller RTU

1.2 Relevant Identified Use Herbicide

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 None

Signal Word None

Hazard Statements None

Precautionary Statements

P102 Keep out of reach of children

P260 Do not breathe spray

P270 Do not eat, drink or smoke when using this product

P273 Avoid release to the environment

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.

2.3 Other hazards: None known

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3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances: N/A

3.2 Description Herbicide containing 60% Acetic acid as a ready to use solution

Hazardous Ingredients

Ingredient	Identifiers	Concentration %W/W	Warning Symbols	Regulation (EC) No 1272/2008 (CLP)
Acetic acid	EC: 64-19-7 CAS: 200-580-7	6 % W/W		H226 Flam liq. Cat. 3; H314 Skin Corr. Eye Dam Cat. 1: H412 Aquatic chronic 3

Additional Information: For the full text of the R phrases and H Statements 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.

Skin Contact: Wash off with soap and plenty of water.
If skin irritation persists, call a physician.

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 wash out mouth thoroughly and seek medical advice immediately. Show container or label.
Do NOT induce vomiting.

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4.2 Most Important Symptoms and Effects, Both Acute and Delayed: None known

4.3 Treatment (Medical Advice): No further relevant information available

5. FIRE FIGHTING MEASURES

5.1 Extinguishing Media: This product is not directly flammable. Use carbon dioxide, extinguishing powder or water jet.

For larger fires with water jet or alcohol resistant foam.

5.2 Specific 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 as required

Further Information:

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 (see section 13).

Reference to other sections: none

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

7. HANDLING AND STORAGE

7.1 Precautions for safe handling:

- No special protective measures against fire required.

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- Avoid contact with skin and eyes
- When using do not eat, drink or smoke
- For personal protection see Section 8

7.2 Conditions for safe storage:

- No special storage conditions required.
- Keep containers closed tightly in a dry, cool and well-ventilated place.
- Keep out of reach of children
- Keep away from food, drink and animal feeding stuffs
- Physically and chemically stable for at least two years when stored in the original unopened sales container at ambient temperatures.

7.3 Specific End Uses:

Use only as herbicide according to the instruction on the label

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control Parameters

8.1.1 Occupational exposure limits: No data

The following recommendations for exposure controls/personal protection are intended for the manufacture, formulation and packaging of the product

8.2 Exposure Controls

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.

Protective Measures: 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.

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A particulate filter respirator may be necessary until effective technical measures are installed.

Hand Protection: Select gloves based on the physical job requirements.

Eye Protection: Follow any site specific eye protection policies

Skin and Body Protection: Select skin and body protection based on the physical job requirements

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance: Colourless liquid

Physical state: liquid

Colour: clear

Odour: characteristic

Odour threshold: None known

9.2 Other information:

	Value	Concentration	Method	Temperature	Pressure	Remark
pH	2.81	-	-	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	1.01g/ml	-	-	20°C	-	-
Solubility(ies)	Soluble	-	-	-	-	-

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	in water					
Partition coefficient: n-octanol/water	-	-	-	-	-	-
Auto-ignition temperature	-	-	-	-	-	-
Decomposition temperature	-	-	-	-	-	-
Viscosity	-	-	-	-	-	-
Viscosity, dynamic	-	-	-	-	-	-
Viscosity, cinematic	-	-	-	-	-	-
Explosive properties	Not explosive	-	-	-	-	-
Oxidising properties	Not oxidising	-	-	-	-	-

Physical hazards: none known

10. STABILITY AND REACTIVITY

- 10.1 Reactivity** Stable under normal conditions of use and storage.
- 10.2 Chemical stability** Stable under normal conditions of use and storage.
- 10.3 Possibility of hazardous reactions:** None known. Hazardous polymerization does not occur
- 10.4 Conditions to avoid:** No information available, stable under normal conditions of use and storage.
- 10.5 Incompatible materials:** None known
- 10.6 Hazardous decomposition products:** Combustion or thermal decomposition will evolve toxic or irritant vapours

11. TOXICOLOGICAL INFORMATION

The toxicological data has been taken from products of similar composition

Acute Oral Toxicity: LD50 Median lethal dose female rat, 3310 mg/kg

Acute Inhalation Toxicity: LC50/4 h Median lethal concentration Rat, >40 mg/l

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Acute Dermal Toxicity: LD50 Median lethal dose male and female Rat, >2,000 mg/kg
Skin Corrosion/ Irritation: Rabbit: Non Irritating
Eye Damage Irritation: Rabbit: Non Irritating
Respiratory/Skin Sensitization: Buehler test guinea pig: not a skin sensitizer in animal tests.

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

Acetic acid did not show mutagenic, carcinogenic, teratogenic or reproductive toxicity effects in animal experiments

STOT- repeated exposure: No adverse effect has been observed in chronic toxicity tests.

12. ECOLOGICAL INFORMATION

12.1 Toxicity:

The toxicity data has been derived from components

Aquatic Toxicity

- **Toxicity To Fish:** LC50 *Oncorhynchus mykiss* (rainbow trout), >300 mg/l, 96h
- **Toxicity To Aquatic Invertebrates:** EC50 *Daphnia magna* (water flea), >300 mg/l 48h
- **Toxicity To Aquatic Plants:** EbC50 *Pseudokirchneriella subcapitata* (green algae), 34 mg/l, 96 h
ErC50 *Pseudokirchneriella subcapitata* (green algae), >300 mg/l, 96 h

12.2 Persistence and Degradability

Not persistent in water, readily biodegradable

12.3 Bioaccumulative Potential: Does not bioaccumulate

12.4 Mobility in Soil: No data

12.5 Results of PBT and vPvB assessment: Not identified as PBT nor vPvB substances

12.6 Other adverse effects: None known

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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

	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

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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 or mixture

15.1.1 Registration Numbers: MAPP 19199

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

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

16. OTHER INFORMATION

16.1 Indication of changes: updated version

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: Sipcam

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

Flamm. Liq. 3; Flammable liquid
Aquatic Chr 3; Aquatic Chronic Toxicity, Category 3
Eye Dam 1; Eye Damage, Category 1
Skin Corr 1A; Skin Corrosion, Category 1A

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

Not applicable

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.