

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

Trade name: Resolva Lawn Weedkiller Extra

Version: 1.0 Revision date: 14.05.2018 Print date: 14.05.2018

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

1.1 Product Resolva Lawn Weed Killer Extra Concentrate

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** <u>customerservice@WestlandHorticulture.com</u>

**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 Not classified

Signal Word Not classified

Hazard Statements Not classified

**Precautionary Statements** 

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

P102 Keep out of reach of children

P103 Read label before use

P501 Dispose of contents/container in a safe way

P261 Avoid breathing mist



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

Trade name: Resolva Lawn Weedkiller Extra

Version:1.0 Revision date: 14.05.2018 Print date: 14.05.2018

Supplemental Information

EUH401 To avoid risks to human health and the environment, comply with the

instructions for use.

SP1 Do not contaminate water with the product or its container (Do not clean

application equipment near surface water)

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.1 Substances

3.2 Description Herbicide containing 37.55 g/l Mecoprop-P and 4.675 g/l Dicamba as a soluble

concentrate

# **Hazardous Ingredients**

Ingredient	Identifiers	Concentration %W/W	Warning Symbols	Regulation (EC) No 1272/2008 (CLP)
(R)and (S)-2-(4-Chloro-2- methylphenoxy) propionic acid potassium salt (Mecoprop-P)	EC: 240-539-0 CAS: 66423-05-0	3.45 % W/W	(!) ( <u>*</u> )	Acute Tox. 4 H302 Eye Dam. 1 H318 Aquatic Chr. 2 H411
3,6-dichloro-2-methoxy benzoic acid (Dicamba)	EC: 217-635-6 CAS: 1918-00-9	0.35% W/W	<b>(!</b> )	Acute Tox. 4 H302, H332 Eye Dam. 1 H318 Aquatic Chr. 2 H411
Potassium Hydroxide	EC: 215-181-3 CAS: 1310-58-3	0 - 0.5%		Acute Tox. 4 H302 Skin Corr. 1A H314

# Additional information:

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



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

Trade name: Resolva Lawn Weedkiller Extra

Version:1.0 Revision date: 14.05.2018 Print date: 14.05.2018

#### 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:** Move person to fresh air.

If there is breathing difficulty or coughing, keep patient warm and at rest.

Seek medical advice immediately.

**Skin Contact:** Take off all contaminated clothing.

Wash all exposed skin area with mild soap and gently flowing water for at least 10

minutes

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.

Take care not to wash the chemical from one eye into the other

Seek medical attention immediately.

**Ingestion:** Rinse mouth with water if the person is conscious

Do NOT induce vomiting.

Seek medical advice immediately and show container or label.

# 4.2 Most important symptoms and effects, both acute and delayed

None known

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

None known

#### 5. FIRE FIGHTING MEASURES

# 5.1 Extinguishing Media:

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide



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

Trade name: Resolva Lawn Weedkiller Extra

Version:1.0 Revision date: 14.05.2018 Print date: 14.05.2018

### 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 (HCl, Cl<sub>2</sub>, CO, CO<sub>2</sub>, NO<sub>x</sub>). Exposure to decomposition products may be a hazard to health

## 5.3 Advicefor Fire Fighters:

Wear full protective clothing and self-contained breathing apparatus.

#### **Additional Information:**

Standard procedure for chemical fires.

Collect contaminated fire extinguishing water separately

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

Use water spray or fog for cooling exposed containers

#### 6. ACCIDENTAL RELEASE MEASURES

### 6.1 Personal Precautions, Protective Equipment and Emergency Procedures:

Wear personal respiratory and eye protective equipment; refer to protective measures listed in sections 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 soak up with non-combustible absorbent material (e.g. sand, silica gel, acid binder, universal binder). Sweep and shovel into suitable containers for disposal according to local / national regulations

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

### 7. HANDLING AND STORAGE

# 7.1 Precautions for safe handling

#### Handling:

Do not eat, drink or smoke when using this product



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

Trade name: Resolva Lawn Weedkiller Extra

Version:1.0 Revision date: 14.05.2018 Print date: 14.05.2018

- Wash hands and other exposed areas with mild soap and water before eat, drink or smoke and when leaving work
- Handle in accordance with good industrial hygiene and safety procedures
- Do not breathe spray

# 7.2 Conditions for safe storage, including any incompatibilities

- Store in original container.
- Keep away from naked lights
- 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

# 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

Ingredients with limit values that require monitoring at the workplace:

	Work Exposure Limit (WEL)			
Ingredient	Long-term Exposure Limit (8-hr TWA reference period)	Short-term Exposure Limit (15 minute reference period)		
(R)-2-(4-Chloro-2- methylphenoxy)propionic acid potassium salt (Mecoprop-P)	10 mg/m <sup>3</sup>	20 mg/m <sup>3</sup>		
3,6-dichloro-2-methoxy benzoic acid, potassium salt (Dicamba)	10 mg/m³			
Potassium Hydroxide		2 mg/m³		

# 8.2 Exposure controls:

The normal precautionary measures for handling chemicals should be observed



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

Trade name: Resolva Lawn Weedkiller Extra

Version:1.0 Revision date: 14.05.2018 Print date: 14.05.2018

8.2.1 Appropriate engineering controls: None known

**8.2.2 Personal protective equipment:** Avoid contact with skin, eyes and clothing.

• Respiratory Protection: No personal respiratory protective equipment normally required when

used with adequate ventilation

Hand Protection: Wear chemical resistant gloves.

Eye Protection: Safety glasses or goggles

Skin and Body Protection: Lightweight protective clothing appropriate to the conditions of use

**Hygiene Measures:** Remove and wash contaminated clothing and gloves, including the inside,

before re-use

Wash hands before breaks and immediately after handling the product.

When using, do not eat, drink or smoke Shower or bath at the end of working

8.2.3 Environmental exposure controls: none known

### 9. PHYSICAL AND CHEMICAL PROPERTIES

# 9.1 Information on basic physical and chemical properties

Appearance: Clear brown liquid

Physical state: Liquid Colour: clear brown

Odour: Slight phenolic odour
Odour threshold: none known



# According to Regulation (EC) No 1907/2006 (REACH) Trade name: Resolva Lawn Weedkiller Extra

Version:1.0 Revision date: 14.05.2018 Print date: 14.05.2018

#### 9.2 Other information:

	Value	Concentration	Method	Temperature	Pressure	Remark
рН	9.6-11.0	-	-	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	1.022g/ml	-	-	-	-	-
Solubility(ies)	soluble	-	-	-	-	-
	in water					
Partition coefficient:	-	-	-	-	-	-
n-octanol/water						
Auto-ignition	-	-	-	-	-	-
temperature						
Decomposition	-	-	-	-	-	-
temperature						
Viscosity	-	-	-	-	-	-
Viscosity, dynamic	-	-	-	-	-	-
Viscosity, cinematic	-	-	-	-	-	-
Explosive properties	-	-	-	-	-	-
Oxidising properties	-	-	-	-	-	-

Physical hazards: N/A



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

Trade name: Resolva Lawn Weedkiller Extra

Version:1.0 Revision date: 14.05.2018 Print date: 14.05.2018

#### 10. STABILITY AND REACTIVITY

- 10.1 Reactivity: The product is stable under normal conditions of use and storage
- 10.2 Chemical stability: The product is stable under normal conditions of use and storage
- **10.3** Possibility of hazardous reactions: None known
- **10.4 Conditions to Avoid:** Avoid direct heat. Protect from frost
- 10.5 Incompatible materials: Strong acid, strong bases and oxidising agents
- **10.6 Hazardous decomposition products**: The product is stable under normal conditions of use and storage Combustion or thermal decomposition will evolve toxic or irritant vapours: hydrogen chloride, halogens, nitrogen oxides, carbon monoxide, carbon dioxide

### 11. TOXICOLOGICAL INFORMATION

Toxicokinetics, metabolism and distribution

11.1 Information on toxicological effects

#### 11.1.1 Substances:

Acute Toxicity: No test data available. Information on ingredients below:

**Dicamba** (≥97%): Median lethal dose Oral, LD50 1581 mg/kg (Rat).

Median lethal dose Dermal, LD50 >2000 mg/kg (Rat)

Median lethal concentration Inhalation, LC50 4.46 mg/l, 4h, (Rat)

Mecoprop-P (600g/I AI): Median lethal dose Oral, LD50 500-2000 mg/kg (Rat).

Harmful if swallowed

Median lethal dose Dermal, LD50 >2000 ml/kg (Rat)

Median lethal concentration Inhalation, LC50 >5.4 mg/l, (Rat)



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

Trade name: Resolva Lawn Weedkiller Extra

Version:1.0 Revision date: 14.05.2018 Print date: 14.05.2018

Potassium Hydroxide: Median lethal dose Oral, LD50 273 mg/kg (Rat). Strong caustic effect

**Corrosion/Irritation:** No test data available. Information on ingredients below:

On the skin: Dicamba: Mildly irritating

Potassium hydroxide: Strong caustic effect

Mecoprop-p: There may be irritation and redness at the site of contact

On the eye: Dicamba: Severely irritating

Mecoprop-P: There may be irritation and redness. The eyes may water

profusely

Potassium hydroxide: Strong caustic effect

Respiratory or Skin Sensitization: No test data available. Information on ingredients below:

**Dicamba**: Not sensitizing

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

No test data available. Information on ingredients below:

Dicamba: This product is not known to be mutagenic, carcinogenic or toxic to

reproduction and development

STOT- repeated exposure: No test data available. Information on ingredients below:

**Dicamba**: This product is not known to be toxic in repeat doses

Other information: None known

#### 12. ECOLOGICAL INFORMATION

**12.1 Toxicity:** Toxic to aquatic organisms. Information on ingredients below:

• Toxicity To Fish: Dicamba: LC<sub>50</sub> Oncorhynchus mykiss (Rainbow trout), 135.4 mg/l, 96h

**Mecoprop-P:** LC<sub>50</sub> Rainbow trout, >100 mg/l, 96h

Potassium Hydroxide: LC<sub>50</sub> Gambusia affinis, 80mg/l, 96h

• Toxicity To Aquatic Invertebrates:

**Dicamba:** EC<sub>50</sub> Daphnia magna (water flea), 110.7 mg/l, 48h **Mecoprop-P:** EC<sub>50</sub> Daphnia magna (water flea), >91 mg/l, 48h

Toxicity To Aquatic Plants:

**Dicamba:** EbC<sub>50</sub> Anabaena flos-aquae (Bluegreen algae), 43.1 mg/l, 72 h



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

Trade name: Resolva Lawn Weedkiller Extra

Version:1.0 Revision date: 14.05.2018 Print date: 14.05.2018

**Mecoprop-P:** ErC<sub>50</sub> Pseudokirchneriella subcapitata, 16.2 mg/l, 72 h or 96h

ErC<sub>50</sub> Lemna minor, 1.6 mg/l, 72h or 96h

• Toxicity To Bacteria: Dicamba: IC<sub>50</sub> activated sewage sludge >500mg/l, 3h

**12.2 Persistence & Degradability: Dicamba:** Not readily biodegradable. No persistent in water:

degradation half life 35-46 d. No persistent in soil: degradation half life 1.4-11d

Mecoprop-P: Rapidily biodegradable

Potassium Hydroxide: Not applicable to inorganic substances

12.3 Bio-accumulative Potential: Dicamba: Potential for bioaccumulation is low

**Mecoprop-P:** Potential for bioaccumulation is low based on log P<sub>ow</sub> **Potassium Hydroxide:** Accumulation in organisms is not expected

**12.4 Mobility: Dicamba:** Very high mobility in soil

**Mecoprop-P:** Fairly mobile but rapidly degraded in aerobic soils

**Potassium Hydroxide:** Slightly hazardous for water. Do not allow undiluted product or large quantities to reach ground water, water course or sewage system

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

12.6 Other adverse effects: None known

#### 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 at licensed waste disposal site capable of

accepting pesticides in compliance with applicable 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



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

Trade name: Resolva Lawn Weedkiller Extra

Version:1.0 Revision date: 14.05.2018 Print date: 14.05.2018

Completely empty containers can be put in the bin or disposed of in compliance with applicable local regulations

### 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 known

# 15. REGULATORY INFORMATION

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

**Contains:** Potassium salt of CMPP-P and Dicamba

**15.1.1 EU regulations: Registration Numbers:** MAPP 16848 PCS 05323



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

Trade name: Resolva Lawn Weedkiller Extra

Version:1.0 Revision date: 14.05.2018 Print date: 14.05.2018

### 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 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
PBT
Regulation (EC) No 1272/2008
International Maritime Dangerous Goods Code
Persistent, Bioaccumulative and Toxic Properties
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: Hygeia Ltd

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

**CLP/GHS:** Acute Tox 4; Acute Toxicity, Category 4

Aquatic Chr 2; Aquatic Chronic Toxicity, Category 2

Eye Dam 1; Eye Damage, Category 1 Skin Corr 1A; Skin Corrosion, Category 1A

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

H302 Harmful if swallowed
H314 Causes severe skin burns and eye damage

H318 Causes severe skin burns and eye damage

H332 Harmful if inhaled

H411 Toxic to aquatic life with long-lasting effects



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

Trade name: Resolva Lawn Weedkiller Extra

Version:1.0 Revision date: 14.05.2018 Print date: 14.05.2018

16.6 Recommended uses and restrictions: 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.