



SAFETY DATA SHEET

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

Product	Resolva Xtra Tough Liquid Sachet
Usage	Herbicide
Supplier	Westland Horticulture Ltd 14 Granville Industrial Estate Granville Road Dungannon County Tyrone BT70 1NJ
Email	customerservice@WestlandHorticulture.com
Emergency Tel	01480 443789 (UK)

2. HAZARDS IDENTIFICATION

Classification of the Substance or Mixture According to Regulation (EC) No 1272/2008:
Not classified

Classification of the Substance or Mixture According to Directive 67/548/EEC or Directive 1999/45/EC:
Not classified

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
P270	Do not eat, drink or smoke when using this product
P280	Wear suitable gloves, protective clothing and eye/face protection
P301+312	If swallowed, seek medical advice and show this container or label
P305+351	If in eyes, rinse cautiously with water for several minutes
P273	Avoid release to the environment
P501	Dispose of contents/container to an approved waste disposal contractor or collection site

Label Elements According to Directive 67/548/EEC or Directive 1999/45/EC:

Hazard Pictograms None


S- Phrases

- S2 Keep out of reach of children
- S13 Keep away from food, drink and animal feeding stuffs
- S20/21 When using do not eat, drink or smoke
- S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice
- S35 This material and its container must be disposed of in a safe way
- S36/37/39 Wear suitable protective clothing, gloves and eye/face protection
- S46 If swallowed, seek medical advice and show this container or label
- S57 Use appropriate container to avoid environmental contamination

3. COMPOSITION/INFORMATION ON INGREDIENTS

Description Herbicide containing 7.2%W/W of glyphosate

Hazardous Ingredients

Ingredient	Identifiers	Concentration %W/W	Warning Symbols	Directive 67/548/EEC	Regulation (EC) No 1272/2008 (CLP)
Glyphosate	EC: 213-997-4 CAS: 1071-83-6	7.2 % W/W		Xi; R41 N; R51/53	Eye Dam. 1, H318 Aquatic Chr. 2, H411

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



4. FIRST AID MEASURES

- General Advice:** 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 any clothing soiled by the product
- Inhalation:** Move the victim to fresh air or supply oxygen
If breathing is irregular or stopped, administer artificial respiration.
Keep patient warm and at rest.
Call a doctor or Poison Control Centre.
- Skin Contact:** Take off all contaminated clothing
Wash off with plenty of soap and water
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.
Consult a doctor
- Ingestion:** If swallowed seek medical advice immediately and show container or label.
- Treatment (Medical Advice):** No further relevant information available

5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media:

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

Specific Hazards Arising From the Substance or Mixture:

Possible formation of toxic gases during heating or in fire: nitrogen oxides (NO_x), carbon monoxide (CO), sulphur dioxide (SO₂). Under certain conditions traces of other toxic gases cannot be excluded.

Special Protective Equipment for Fire Fighters:

Wear full protective clothing and self-contained breathing apparatus.
Do not inhale explosion or combustion gases.

Further Information:

Do not allow run-off from fire fighting to enter drains or water courses.
Dispose of fire debris and contaminated water in accordance with official regulations.
Cool closed containers exposed to fire with water spray. Keep upwind



6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment And Emergency Procedures:

Refer to protective measures listed in sections 7 and 8.
Keep unprotected people away

Environmental Precautions:

Inform respective authorities in case product reaches water or sewage system.
Do not allow to enter drainage system, surface or ground water.

Methods and Materials For Containment and Cleaning Up:

Absorb with liquid binding material (sand, diatomite, acid binder, universal binder, sawdust).
Dispose of contaminated material as waste according to Section 13.
Ensure adequate ventilation

7. HANDLING AND STORAGE

Handling:

- Ensure good ventilation/exhaustion at the workplace.
- Prevent formation of aerosols, work only in fume cupboard.
- Keep ignition sources away.
- Do not drink, eat or smoke while working.
- The product is not flammable.

Storage:

- Store only in original container.
- 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 feedingstuffs.
- Protect from frost
- Protect from heat and direct sunlight

Specific End Uses:

Use only as herbicide according to the instruction on the label



8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control Parameters

Component(s)	Exposure Limit(s)	Type of exposure limit	Source
Glyphosate	10mg/m ³	8 h TWA	SYNGENTA

Exposure Controls

The usual precautionary measures should be adhered to general rules for handling chemicals.

Avoid contact with the eyes and skin.

Take off immediately all contaminated clothing

Wash hands during breaks and at the end of the work.

Keep children and pets away from treated areas until spray has dried

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: Breathing protection is recommended. Recommended filter device: Filter P1

Hand Protection: Protective gloves (rubber)

Eye Protection: Safety glasses

Skin And Body Protection: Protective work clothing

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Colourless liquid suspension

Odour: Characteristic

Other Properties:

	Value	Temperature
pH	3.54 (1% aqueous)	20°C
Density	1.11 g/ml	
Viscosity	1.645 cSt	
Solubility	Soluble in water	

Explosive Properties: Not explosive



10. STABILITY AND REACTIVITY

Hazardous Decomposition: No decomposition if used according to specifications
Thermal decomposition products may include toxic and corrosive fumes of chlorides and toxic oxides of nitrogen.

Hazardous Reactions: No information available

Conditions To Avoid: No information available, stable under normal conditions.

11. TOXICOLOGICAL INFORMATION

The toxicological data has been taken from higher concentration products

Acute Oral Toxicity: LD50 Median lethal dose rat 5,000 mg/kg

Acute Inhalation Toxicity: LC50 Median lethal concentration Rat, >5.7 mg/l, 4h

Acute Dermal Toxicity: LD50 Median lethal dose Rat, >5,000 mg/kg

Skin Irritation: No irritant effect

Serious Eye Irritation: No irritant effect

Respiratory or Skin Sensitization: No sensitization effect known

Long Term Toxicity: No mutagenic, carcinogenic, teratogenic or reproductive toxicity effects known

STOT- repeated exposure: No data available

12. ECOLOGICAL INFORMATION

Toxicity

Based on test results obtained from higher concentration product

- **Toxicity To Fish:** LC50 >100mg/l
- **Toxicity To Aquatic Invertebrates:** Daphnia magna (water flea) LC50 >100 mg/l
- **Toxicity To Aquatic Plants:** Algae EC50 >100mg/l

Other toxicity (active substance):

- **Toxicity to Bird:** LC50 >3851mg/kg
- **Toxicity to bee:** LD50>100µg/bee



Persistence and Degradability: Not persistent in water, moderately persistent in soil

Bioaccumulative Potential: Does not bioaccumulate

Mobility in Soil: Strongly absorbs to soil

Notes: Do not allow product to reach groundwater, water bodies or sewage system

13. DISPOSAL CONSIDERATIONS

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.
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) Not dangerous goods

Sea Transport (IMDG) Not dangerous goods

Air Transport (IATA-DGR) Not dangerous goods

None special precautions for user

15. REGULATORY INFORMATION

Registration Numbers: MAPP 16030

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: Glyphosate

Chemical Safety Assessment: No information available



16. OTHER INFORMATION

Recommended uses and restrictions: Follow the instructions

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

H318 Causes serious eye damage
H411 Toxic to aquatic life with long lasting effect

Full text of R Phrases referred to under Section 3:

R41 Risk of serious damage to eyes
R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Full text of Classifications

- **CLP/GHS:** Aquatic Chr 2; Aquatic Chronic Toxicity, Category 2
Eye Dam 1; Eye Damage, Category 1
- **DSD/DPD:** Xi; Irritant
N; Dangerous for the environment

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

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.