



SAFETY DATA SHEET

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

Product **Rose Rescue**

Usage Insecticide and fungicide

Manufacturer Westland Horticulture Ltd
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Dungannon
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Email www.gardenhealth.com

Emergency Tel 08700 663566 (UK)

2. HAZARDS IDENTIFICATION

Classification of the Substance according to Directive 67/548/ECC or 1999/45/EC:

Classification: N

Label Elements according to Directive 67/548/ECC or 1999/45/EC:

Hazard Symbol: Dangerous for the environment







Risk Phrases: R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

3. COMPOSITION/INFORMATION ON INGREDIENTS

Description Ready to use insecticide and fungicide containing Cypermethrin 0.05g/l and Myclobutanil 0.075 g/l

Hazardous Ingredients

This product contains ingredients, substances, mixtures, impurities or stabilizing additives required to be declared under Article 18(2) of Regulation (EC) No 1272/2008. EEC Annex I of Directive 67/548/EEC contains a list of harmonised classifications and labelling for substances or groups of substances and the following Risk Phrases/Safety phrases (where applicable) are relevant to anyone using or handling this product:

CAS Number	Active Ingredient	Concentration	Directive 67/548/EEC		Regulation (EC) No 1272/2008 (CLP)	
			Warning Symbols	'R' Phrase(s)		
88671-89-0	Myclobutanil (ISO)	0.0075 % W/W	 	Xn Xi N	R63; Repr Cat 3 R22 R36 R51/53	Repr.2, H361d Acute Tox. 4 (Oral), H302 Eye Irrit. 2, H319 Aquatic Chronic 2, H411
52315-07-8	Cypermethrin cis/trans 40/60	0.005 % W/W	 	Xn Xi N	R20/22 R37 R50/53	Acute Tox.4 (inhalation, H332 Acute Tox.4 (Oral), H302 STOT SE 3, H335 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

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

4. FIRST AID MEASURES

General Advice: If medical advice is needed, have product container or label at hand.

Inhalation: Move person to fresh air.
Keep patient warm and at rest.
In case of breathing difficulties administer oxygen
In case of irregular breathing or respiratory arrest provide artificial respiration
In all cases of doubt, or when symptoms persist, seek medical advice.

Skin Contact: Remove all contaminated clothing and immediately wash with plenty of soap and water.
If skin irritation occurs, get medical advice/attention.

Eye Contact: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.
Remove contact lenses, if present, and continue flushing.
Get medical attention if irritation develops and persists.

Ingestion: Rinse mouth out with water if the person is conscious.
Do NOT induce vomiting.
Immediately seek medical advice and show container or label.

Treatment (Medical Advice):
Treat symptomatically



5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media:

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

Extinguishing Media Which Must Not Be Used For Safety Reasons:

High power water jet.

Specific Hazards Arising From the Substance or Mixture:

Product is non flammable

When expose to heat, may decompose liberating hazardous gases.

Special Protective Equipment for Fire Fighters:

Wear full protective clothing and self-contained breathing apparatus.

Do not breathe fumes in the even of fire and/or explosion

Further Information:

Whenever possible, contain fire fighting water by diking area with sand or earth.

Evacuate and limit access.

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

Remove containers from areas of fire or cool endangered container with water spray.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures:

When leaks or spills occur, only properly protected personnel should remain in the area

Wear suitable protective clothing, gloves and eye protection. In case of insufficient ventilation, wear suitable respiratory equipment

Evacuate the area. Eliminate ignition sources. Provide adequate ventilation to minimise dust and/or vapour concentrations. Call an expert

Environmental Precautions:

Prevent further leakage or spillage if safe to do so.

Do not flush into surface water or sanitary sewer system

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

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



7. HANDLING AND STORAGE

Handling:

- Handle in accordance with good industrial hygiene and safety procedures
- Keep away from heat/sparks/open flames/hot surfaces
- Do not allow to enter into surface water or drains
- When using do not eat, drink or smoke
- Remove contaminated clothing and wash before reuse
- Wash hand and other exposed areas with mild soap and water before eat, drink or smoke and when leaving work

Storage:

- Keep away from direct sunlight
- 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 strong acids, alkalis and oxidizing agents
- Physically and chemically stable for three years when stored in the original unopened sales container at ambient temperatures.

Specific End Uses:

Use only as fungicide and insecticide according to the instruction on the label

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control Parameters: Not additional information available

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



Hand Protection: Wear suitable gloves resistant to chemical penetration. Nitrile rubber (NBR)

Eye Protection: Chemical goggles or safety glasses
Emergency eye wash station and safety showers should be available in the immediate vicinity of any potential exposure

Skin and Body Protection: No special protective equipment required
Select skin and body protection based on the physical job requirements

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Colourless liquid

Odour: Characteristic

Other Properties:

	Value	Temperature	Method
pH	6.5		
Flash point	>79 °C		
Self ignition temperature	>538 °C		
Viscosity, kinematic	1.0213 cSt	20 °C	

Oxidising Properties: Not oxidising

Explosive Properties: Not explosive

10. STABILITY AND REACTIVITY

Stability: This product is stable under normal conditions of storage and use

Hazardous Decomposition: Combustion or thermal decomposition will evolve toxic or irritant gases such as carbon dioxide (CO₂), carbon monoxide (CO) and nitrogen oxides (NO_x)

Conditions To Avoid: Extremes of temperature and direct sunlight.
Keep away from heat/sparks/open flames/hot surfaces. No smoking
Strong acids, alkalis and oxidising agents



11. TOXICOLOGICAL INFORMATION

Acute Oral Toxicity:	Rose Rescue	LD50 Median lethal dose rat, >5000 mg/kg
	Cypermethrin cis/trans 40/60	LD50 Median lethal dose rat, 287 mg/kg
	Myclobutanil (ISO)	LD50 Median lethal dose rat, 1600 mg/kg
Acute Dermal Toxicity:	Rose Rescue	LD50 Median lethal dose rat, >2000 mg/kg
	Cypermethrin cis/trans 40/60	LD50 Median lethal dose rat, >2000 mg/kg
	Myclobutanil (ISO)	LD50 Median lethal dose rat, >2000 mg/kg
Acute Inhalation Toxicity:	Cypermethrin cis/trans 40/60	LC50 Median lethal concentration rat, 3.28 mg/l, 4h
	Myclobutanil (ISO)	LC50 Median lethal concentration rat, 5.1 g/m ³
Skin Irritation:	Non Irritating	
Eye Irritation:	Non Irritating	
Sensitization:	Non sensitising.	
Long Term Toxicity:	Did not show mutagenic, carcinogenic, teratogenic or reproductive toxicity effects	

12. ECOLOGICAL INFORMATION

Toxicity

- Toxicity To Fish:**

Rose Rescue	LC50 >0.27 mg/l, 96h
Cypermethrin Cis/trans 40/60	LC50, Salmo gairdneri, 0.0028 mg/l, 96h
Myclobutanil (ISO)	LC50, Oncorhynchus mykiss, 2 mg/l, 96h
- Toxicity To Aquatic Invertebrates:**

Rose Rescue	EC50 Daphnia magna (water flea), 0.017 mg/l, 48h
Cypermethrin Cis/trans 40/60	EC50 Daphnia magna (water flea), 0.0003mg/l, 48h
Myclobutanil (ISO)	EC50 Daphnia magna (water flea), 17 mg/l, 48h
- Toxicity To Aquatic Plants:**

Rose Rescue	ErC50 Selenastrum capricornutum (Algae), >21 mg/l, 72h
Cypermethrin Cis/trans 40/60	ErC50 Selenastrum capricornutum (Algae), >0.1 mg/l, 96h
Myclobutanil (ISO)	ErC50 Desmodemus subspicatus (Algae), 6.7 mg/l, 96h



13. DISPOSAL CONSIDERATIONS

- Product:** Do not contaminate ponds, waterways or ditches with chemical or used container.
Do not dispose of waste into sewer.
Recycling should also be considered before the disposal of any waste
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

In accordance with ADR /RID/ ADN/IMDG/ICAO/IATA

UN Number: 3082
Class: 9
Labels: 9
Packaging Group: III
Proper shipping name: ENVIRONMENTAL HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(Contains Cypermethrin cis/trans 40/60 and Myclobutanil (ISO))
Environmentally Hazardous Substance: Marine pollutant

Precautions for User

Overland Transport: Hazard Identification Number (Kemler No): 90
Classification Code: M6
Tunnel Restriction Code: E
Limited Quantities (ADR): LQ07
Excepted Quantities (ADR): E1

Transport by Sea: EmS-No (1): F-A
EmS-No (2): S-F

Air Transport: Instruction "cargo" (ICAO): 964/450L
Instruction "passenger" (ICAO): 964/450L
Instruction "passenger" – Limited Quantities: Y964/30 kg G



15. REGULATORY INFORMATION

Registration Numbers: MAPP 15927
PCS 04801

Labelling According to EC Directives

Symbol: N Dangerous for the environment

R-Phrases

R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

S- Phrases

S2 Keep out of the reach of children

S13 Keep away from food, drink and animal feedingstuffs

S20/21 When using do not eat, drink or smoke

S23 Do not breath spray mist

S51 Use only in well-ventilated areas

S61 Avoid release to the environment. Refer to special instructions/safety data sheet

Contains: Cypermethrin cis/trans 40/60 and Myclobutanil (ISO)

Special Labelling of Certain Preparations:

To avoid risks to man and the environment, comply with the instructions for use



16. OTHER INFORMATION

Recommended uses and restrictions: Follow the instructions

Full text of R Phrases and H Statements referred to under Sections 2 and 3:

R20/22	Harmful by inhalation and if swallowed
R22	Harmful if swallowed
R36	Irritating to eyes
R37	Irritating to respiratory system
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
R63	Possible risk of harm to the unborn child
H302	Harmful if swallowed
H319	Causes serious eye irritation
H332	Harmful if inhaled
H335	May cause respiratory irritation
H361	Suspected of damaging fertility or the unborn child
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects
H411	Toxic to aquatic life with long lasting effects

Abbreviations and Acronyms

CAS No	Chemicals Abstract Service Registry Number
MAPP	Ministerially Approved Pesticide Product
PCS	Pesticide Control Service
Regulation (EC) No 1272/2008	Classification, Labelling and packaging
Directive 67/548/EEC	Dangerous Substances Directive
Directive 91/689/EEC	Directive on Hazardous Waste
IMDG Code	International Maritime Dangerous Goods Code
ADR	International carriage of dangerous Goods by Road

Further information

Before using this product, ensure that you read and understand its label

The information in this Safety Data Sheet has been prepared in accordance with the applicable European Directives. The information is believed to be correct at the time of going to press. Always read the label and product information before use. For further information please contact Westland Horticulture Ltd, 14 Granville Industrial Estate, Granville Road, Dungannon, County Tyrone, BT70 1NJ.