

VITAX SAFETY DATA SHEET  
**ROSEGARDE**

Date: 15 Sept 2015

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**SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**

**1.1 Product identifier**

**Trade name** ROSEGARDE

**Product code**

**1.2 Relevant identified uses of the substance or mixture and uses advised against**

**Use** Insecticide, Fungicide

**1.3 Details of the supplier of the safety data sheet**

**Supplier** Vitax Ltd, Owen St, Coalville, Leics LE67 3DE

**Telephone** +44(0)1530 510060

**Web** www.vitax.co.uk

**1.4 Emergency telephone no.**

**Emergency telephone no.** +44(0)1530 510060 (Office hours)

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**SECTION 2: HAZARDS IDENTIFICATION**

**2.1 Classification of the substance or mixture**

**Classification in accordance with Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures, as amended.**

Acute aquatic toxicity: Category 1  
H400 Very toxic to aquatic life.

Chronic aquatic toxicity: Category 1  
H410 Very toxic to aquatic life with long lasting effects.

**Classification according to EU Directives 67/548/EEC or 1999/45/EC**

N Dangerous for the environment, R50/53

**2.2 Label elements**

**Labelling in accordance with Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures, as amended.**

Hazard label for supply/use required.

**Hazardous components which must be listed on the label:**

- ☐ Myclobutanil
- ☐ Cypermethrin cis/trans +/- 40/60

**Pictogram**

**Signal word:** Warning

**Hazard statements**

H410 Very toxic to aquatic life with long lasting effects.  
EUH401 To avoid risks to human health and the environment, comply with the instructions for use.



## Precautionary statements

|      |   |
|------|---|
| P101 | If medical advice is needed, have product container or label at hand.   |
| P102 | Keep out of reach of children.  |
| P260 | Do not breathe spray.   |
| P271 | Use only outdoors or in a well-ventilated area.   |
| P501 | Dispose of contents/container to a household waste recycling centre as hazardous waste except for empty containers which can be disposed of by recycling. Contact your local council for details. |

## 2.3 Other hazards

Cutaneous sensations may occur, such as burning or stinging on the face and mucosae. However, these sensations cause no lesions and are of a transitory nature (max. 24 hours).

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.2 Mixtures

#### Chemical nature

Any other liquids (AL)  
Myclobutanil/Cypermethrin 0,075:0,05 g/l

#### Hazardous components

R-phrases according to EC directive 67/548/EEC  
Hazard statements according to Regulation (EC) No. 1907/2006

#### Classification

| Name                                | CAS-No. /<br>EC-No.     | EC Directive<br>67/548/EEC                        | Regulation (EC) No<br>1272/2008   | Conc. [%] |
|-------------------------------------|-------------------------|---|---|-----------|
|                                     |                         |   |   |           |
| Myclobutanil                        | 88671-89-0<br>4104000   | Repr.Cat.3 R63<br>Xn; R22<br>Xi; R36<br>N; R51/53 | Repr. 2, H361d<br>Acute Tox. 4, H302 Eye<br>Irrit. 2, H319 Aquatic<br>Chronic 2, H411                           | 0.0075    |
| Cypermethrin<br>cis/trans +/- 40/60 | 52315-07-8<br>257-842-9 | Xn; R20/22<br>Xi; R37 N;<br>R50/53                | Acute Tox. 4, H332<br>Acute Tox. 4, H302<br>STOT SE 3, H335<br>Aquatic Acute 1, H400<br>Aquatic Chronic 1, H410 | 0.005     |

#### Further information

For the full text of the R-phrases/ Hazard statements mentioned in this Section, see Section 16.

## SECTION 4: FIRST AID MEASURES

### 4.1 Description of first aid measures

|                       |  |
|-----------------------|--|
| <b>General advice</b> | Remove contaminated clothing immediately and dispose of safely.  |
| <b>Inhalation</b>     | Move the victim to fresh air and keep at rest. Call a physician or poison control center immediately.  |
| <b>Skin contact</b>   | Immediately wash with plenty of soap and water for at least 15 minutes. Warm water may increase the subjective severity of the irritation/paresthesia. This is not a sign of systemic poisoning. In case of skin irritation, application of oils or lotions containing vitamin E may be considered. If symptoms persist, call a physician.   |
| <b>Eye contact</b>    | Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Warm water may increase the subjective severity of the irritation/paresthesia. This is not a sign of systemic poisoning. Apply soothing eye drops, if needed anaesthetic eye drops. Get medical attention if irritation develops and persists. |
| <b>Ingestion</b>      | Keep at rest. Rinse mouth. Do NOT induce vomiting. Call a physician or poison control center immediately.  |

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

|                 |   |
|-----------------|---|
| <b>Symptoms</b> | Local:, Skin and eye paraesthesia which may be severe, Usually transient with resolution within 24 hours, Skin, eye and mucous membrane irritation, Cough, Sneezing<br><br>Systemic:, Discomfort in the chest, Tachycardia, Hypotension, Nausea, Abdominal pain, Diarrhoea, Vomiting, Dizziness, Blurred vision, Headache, Anorexia, Somnolence, Coma, Convulsions, Tremors, Prostration, Airway hyperreaction, Pulmonary oedema, Palpitation, Muscular fasciculation, Apathy |
|-----------------|---|

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

|                  |  |
|------------------|--|
| <b>Risks</b>     | This product contains a pyrethroid. Pyrethroid poisoning should not be confused with carbamate or organophosphate poisoning.   |
| <b>Treatment</b> | Local treatment: Initial treatment: symptomatic.<br><br>Systemic treatment: Initial treatment: symptomatic. Monitor: respiratory and cardiac functions. In case of ingestion gastric lavage should be considered in cases of significant ingestions only within the first 2 hours. However, the application of activated charcoal and sodium sulphate is always advisable. Keep respiratory tract clear. Oxygen or artificial respiration if needed. In case of convulsions, a benzodiazepine (e.g. diazepam) should be given according to standard regimens. If not effective, phenobarbital may be used. Contraindication: atropine. Contraindication: derivatives of adrenaline. There is no specific antidote. Recovery is spontaneous and without sequelae. |

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## SECTION 5: FIREFIGHTING MEASURES

### 5.1 Extinguishing media

|                   |  |
|-------------------|--|
| <b>Suitable</b>   | Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. |
| <b>Unsuitable</b> | High volume water jet  |

|  |   |
|--|---|
| <b>5.2 Special hazards arising from the substance or mixture</b> | Dangerous gases are evolved in the event of a fire. |
|--|---|

### 5.3 Advice for firefighters

|   |   |
|---|---|
| <b>Special protective equipment for fire-fighters</b> | In the event of fire and/or explosion do not breathe fumes. In the event of fire, wear self-contained breathing apparatus.  |
| <b>Further information</b>                            | Remove product from areas of fire, or otherwise cool containers with water in order to avoid pressure being built up due to heat. Whenever possible, contain fire-fighting water by diking area with sand or earth. |

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## SECTION 6: ACCIDENTAL RELEASE MEASURES

### 6.1 Personal precautions, protective equipment and emergency procedures

|                    |   |
|--------------------|---|
| <b>Precautions</b> | Avoid contact with spilled product or contaminated surfaces. When dealing with a spillage do not eat, drink or smoke. |
|--------------------|---|

|                                      |   |
|--------------------------------------|---|
| <b>6.2 Environmental precautions</b> | Do not allow to get into surface water, drains and ground water. If spillage enters drains leading to sewage works inform local water company immediately. If spillage enters rivers or watercourses, inform the Environment Agency (emergency telephone number 0800 807060). |
|--------------------------------------|---|

### 6.3 Methods and materials for containment and cleaning up

|                                |  |
|--------------------------------|--|
| <b>Methods for cleaning up</b> | Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Keep in suitable, closed containers for disposal. Clean floors and contaminated objects with plenty of water. |
| <b>Additional advice</b>       | Check also for any local site procedures.  |

|  |   |
|--|---|
| <b>6.4 Reference to other sections</b> | Information regarding safe handling, see section 7.<br>Information regarding personal protective equipment, see section 8.<br>Information regarding waste disposal, see section 13. |
|--|---|

## SECTION 7: HANDLING AND STORAGE

### 7.1 Precautions for safe handling

|  |  |
|--|--|
| <b>Advice on safe handling</b>                         | No specific precautions required when handling unopened packs/containers; follow relevant manual handling advice. Ensure adequate ventilation. |
| <b>Advice on protection against fire and explosion</b> | No special precautions required.   |
| <b>Hygiene measures</b>                                | When using, do not eat, drink or smoke. Wash hands immediately after work, if necessary take a shower.   |

### 7.2 Conditions for safe storage, including any incompatibilities

|  |  |
|--|--|
| <b>Requirements for storage areas and containers</b> | Store in original container and out of the reach of children, preferably in a locked storage area. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from direct sunlight. Protect from freezing. |
| <b>Advice on common storage</b>                      | Keep away from food, drink and animal feedingstuffs.   |
| <b>7.3 Specific end uses</b>                         | Refer to the label and/or leaflet.   |

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Control parameters

| Components                       | CAS-No.    | Control parameters                  | Update | Basis    |
|----------------------------------|------------|-------------------------------------|--------|----------|
| Cypermethrin cis/trans +/- 40/60 | 52315-07-8 | 0.08 mg/m <sup>3</sup><br>(OES BCS) |        | OES BCS* |

\*OES BCS: Internal Bayer CropScience "Occupational Exposure Standard"

### 8.2 Exposure controls

**Refer to COSHH assessment (Control of Substances Hazardous to Health (Amendment) Regulations 2004). Engineering controls should be used in preference to personal protective equipment wherever practicable. Refer also to COSHH Essentials.**

#### Personal protective equipment

In normal use conditions personal protective equipment is not deemed to be necessary. If there is a potential for excessive exposure the following applies:

|                                 |  |
|---------------------------------|--|
| <b>Respiratory protection</b>   | Respiratory protection is not required under anticipated circumstances of exposure.<br>Respiratory protection should only be used to control residual risk of short duration activities, when all reasonably practicable steps have been taken to reduce exposure at source e.g. containment and/or local extract ventilation. Always follow respirator manufacturer's instructions regarding wearing and maintenance. |
| <b>Hand protection</b>          | Wear CE Marked (or equivalent) nitrile rubber gloves (minimum thickness of 0,4 mm). Wash when contaminated and dispose of when contaminated inside, when perforated or when contamination on the outside cannot be removed. Wash hands frequently and always before eating, drinking, smoking or using the toilet.   |
| <b>Eye protection</b>           | Wear goggles (conforming to EN166, Field of Use = 5 or equivalent).  |
| <b>Skin and body protection</b> | Wear standard coveralls and Category 3 Type 6 suit.<br>If there is a risk of significant exposure, consider a higher protective type suit.<br>Wear two layers of clothing wherever possible. Polyester/cotton or cotton overalls should be worn under chemical protection suit and should be professionally laundered frequently.  |

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

|  |                              |
|--|------------------------------|
| Form                                   | clear liquid                 |
| Colour                                 | colourless                   |
| Density                                | 0.99 - 1.0 g/cm <sup>3</sup> |
| Partition coefficient: n-octanol/water | Myclobutanil: log Pow: 2.94  |

**9.2 Other information** Further safety related physical-chemical data are not known.

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## SECTION 10: STABILITY AND REACTIVITY

### 10.1 Reactivity

**Thermal decomposition** Stable under normal conditions.

**10.2 Chemical stability** Stable under recommended storage conditions.

**10.3 Possibility of hazardous reactions** No hazardous reactions when stored and handled according to prescribed instructions.

**10.4 Conditions to avoid** Extremes of temperature and direct sunlight.

**10.5 Incompatible materials** Store only in the original container.

**10.6 Hazardous decomposition products** No decomposition products expected under normal conditions of use.

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## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

**Acute oral toxicity** LD50 (rat) > 5,000 mg/kg

**Acute inhalation toxicity** ATE > 5.0 mg/l  
ATE – acute toxicity estimate

**Acute dermal toxicity** LD50 (rat) > 2,000 mg/kg

**Skin irritation** No skin irritation (rabbit)

**Eye irritation** No eye irritation (rabbit)

**Sensitisation** Non-sensitizing. (guinea pig)

### Assessment repeated dose toxicity

Myclobutanil did not cause specific target organ toxicity in experimental animal studies.  
Cypermethrin caused neurobehavioral effects and/or neuropathological changes in animal studies.

### Assessment Mutagenicity

Myclobutanil was not mutagenic or genotoxic in a battery of in vitro and in vivo tests.  
Cypermethrin was not mutagenic or genotoxic in a battery of in vitro and in vivo tests.

### Assessment Carcinogenicity

Myclobutanil was not carcinogenic in lifetime feeding studies in rats and mice.  
Cypermethrin was not carcinogenic in lifetime feeding studies in rats and mice.

### Assessment toxicity to reproduction

Myclobutanil caused reproduction toxicity in generation studies in rats only at dose levels also toxic to the parent animals.

Cypermethrin caused reproduction toxicity in a two-generation study in rats only at dose levels also toxic to the parent animals. The reproduction toxicity seen with Cypermethrin is related to parental toxicity.

### Assessment developmental toxicity

Myclobutanil caused a reduced pup survival.  
Cypermethrin did not cause developmental toxicity in rats and rabbits.

### Further information

Cutaneous sensations may occur, such as burning or stinging on the face and mucosae.

## SECTION 12: ECOLOGICAL INFORMATION

### 12.1 Toxicity

|  |   |
|--|---|
| <b>Toxicity to fish</b>                  | LC50 (Fish) > 0.27 mg/l<br>Exposure time: 96 h                    |
| <b>Toxicity to aquatic invertebrates</b> | EC50 (Daphnia) > 0.017 mg/l<br>Exposure time: 48 h                |
| <b>Toxicity to aquatic plants</b>        | EC50 (Selenastrum capricornutum) > 21 mg/l<br>Exposure time: 72 h |

### 12.2 Persistence and degradability

|                         |  |
|-------------------------|--|
| <b>Biodegradability</b> | Myclobutanil:<br>not rapidly biodegradable<br>Cypermethrin:<br>not rapidly biodegradable |
| <b>Koc</b>              | Myclobutanil: Koc: 517<br>Cypermethrin: Koc: 26492 - 144652                              |

### 12.3 Bioaccumulative potential

|                        |  |
|------------------------|--|
| <b>Bioaccumulation</b> | Myclobutanil: Bioconcentration factor (BCF) 8.3<br>Does not bioaccumulate.<br>Cypermethrin: Bioconcentration factor (BCF) 1,204<br>Does not bioaccumulate. |
|------------------------|--|

### 12.4 Mobility in soil

|                         |  |
|-------------------------|--|
| <b>Mobility in soil</b> | Myclobutanil: Slightly mobile in soils<br>Cypermethrin: Immobile in soil |
|-------------------------|--|

### 12.5 Results of PBT and vPvB assessment

|                                |  |
|--------------------------------|--|
| <b>PBT and vPvB assessment</b> | Myclobutanil: This substance is not considered to be persistent, bioaccumulative and toxic (PBT). This substance is not considered to be very persistent and very bioaccumulative (vPvB).<br>Cypermethrin: This substance is not considered to be persistent, bioaccumulative and toxic (PBT). This substance is not considered to be very persistent and very bioaccumulative (vPvB). |
|--------------------------------|--|

### 12.6 Other adverse effects

|  |                                   |
|--|-----------------------------------|
| <b>Additional ecological information</b> | No other effects to be mentioned. |
|--|-----------------------------------|

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## SECTION 13: DISPOSAL CONSIDERATIONS

### 13.1 Waste treatment methods

|   |  |
|---|--|
| <b>Product</b>                          | Do not empty into drains.<br>Dispose of unused product in its container at a household waste site (civic amenity site).<br>Contact your local council (local authority) for details. |
| <b>Contaminated packaging</b>           | Dispose of empty container in the dustbin.<br>Follow advice on product label and/or leaflet.   |
| <b>Waste key for the unused product</b> | <b>020108</b> agrochemical waste containing dangerous substances   |

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## SECTION 14: TRANSPORT INFORMATION

### ADR/RID/ADN

|                                 |  |
|---------------------------------|--|
| 14.1 UN number                  | <b>3082</b>  |
| 14.2 Proper shipping name       | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,<br>N.O.S.<br>(CYPERMETHRINE SOLUTION) |
| 14.3 Transport hazard class(es) | 9 14.4   |
| Packing group                   | III  |
| 14.5 Environm. Hazardous Mark   | YES  |
| Hazard no.                      | 90   |
| Tunnel Code                     | E  |

This classification is in principle not valid for carriage by tank vessel on inland waterways. Please refer to the manufacturer for further information.

### IMDG

|                                 |  |
|---------------------------------|--|
| 14.1 UN number                  | <b>3082</b>  |
| 14.2 Proper shipping name       | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,<br>N.O.S.<br>(CYPERMETHRINE SOLUTION) |
| 14.3 Transport hazard class(es) | 9 14.4   |
| Packing group                   | III  |
| 14.5 Marine pollutant           | YES  |

### IATA

|                                 |   |
|---------------------------------|---|
| 14.1 UN number                  | <b>3082</b>   |
| 14.2 Proper shipping name       | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,<br>N.O.S.<br>(CYPERMETHRINE SOLUTION ) |
| 14.3 Transport hazard class(es) | 9 14.4  |
| Packing group                   | III   |
| 14.5 Environm. Hazardous Mark   | YES   |

### UK 'Carriage' Regulations

|                                 |  |
|---------------------------------|--|
| 14.1 UN number                  | <b>3082</b>  |
| 14.2 Proper shipping name       | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,<br>N.O.S.<br>(CYPERMETHRINE SOLUTION) |
| 14.3 Transport hazard class(es) | 9 14.4   |
| Packing group                   | III  |
| 14.5 Environm. Hazardous Mark   | YES  |
| Emergency action code           | 3Z   |

### 14.6 Special precautions for user

See sections 6 to 8 of this Safety Data Sheet.

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

No transport in bulk according to the IBC Code.

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## SECTION 15: REGULATORY INFORMATION

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

#### UK and Northern Ireland Regulatory References

This material may be subject to some or all of the following regulations (and any subsequent amendments). Users must ensure that any uses and restrictions as indicated on the label and/or leaflet are followed.

#### Transport

Carriage of Dangerous Goods and Use of Transportable Pressure Equipment Regulations 2009 (SI 2009 No 1348)

Merchant Shipping (Dangerous Goods and Marine Pollutants) Regulations 1997 (SI 1997 No 2367)

Air Navigation Dangerous Goods Regulations 2002 (SI 2002 No 2786)

## Supply and Use

Chemical (Hazard Information and Packaging for Supply) Regulations 2009 (SI 2009 No 716)  
Chemical (Hazard Information and Packaging for Supply) (Northern Ireland) Regulations 2009  
Control of Substances Hazardous to Health Regulations 2002 (SI 2002 No 2677)  
EH40 Occupational Exposure Limits - Table 1 List of approved workplace exposure limits  
Control of Pesticide Regulations 1986  
Dangerous Substances and Explosive Atmospheres Regulations 2002

## Waste Treatment

Environmental Protection Act 1990, Part II  
Environmental Protection (Duty of Care) Regulations 1991  
The Waste Management Licensing Regulations 1994 (as amended)  
Hazardous Waste Regulations 2005 (Replacing Special Waste Regulations 1996 as amended)  
Landfill Directive  
Regulation on Substances That Deplete the Ozone Layer 1994 (EEC/3093/94)  
Water Resources Act 1991  
Anti-Pollution Works Regulations 1999

## Further information

WHO-classification: III (Slightly hazardous)

### 15.2 Chemical Safety Assessment

A chemical safety assessment is not required.

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## SECTION 16: OTHER INFORMATION

### Text of R-phrases mentioned in Section 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.   |

### Text of the hazard statements mentioned in Section 3

|       |   |
|-------|---|
| H302  | Harmful if swallowed.                                 |
| H319  | Causes serious eye irritation.                        |
| H332  | Harmful if inhaled.                                   |
| H335  | May cause respiratory irritation.                     |
| H361d | Suspected of damaging 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.      |

The above information is intended to give general health and safety guidance on the storage and transport of the product.

It is not intended to apply to the use of the product for which purposes the product label and any appropriate technical usage literature available should be consulted and any relevant licenses, consents or approvals complied with.

The requirements or recommendations of any relevant site or working procedure, system or policy in force or arising from any risk assessment involving the substance or product should take precedence over any of the guidance contained in this safety data sheet where there is a difference in the information given.

The information provided in this safety data sheet is accurate at the date of publication and will be updated as and when appropriate.

No liability will be accepted for any injury, loss or damage resulting from any failure to take account of information or advice contained in this safety data sheet.

**Reason for Revision:** Safety Data Sheet according to Regulation (EU) No. 453/2010.