

# Safety Data Sheet

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REVISION (see box 16)

Issue : 4

08 : 02 : 2013

## SECTION 1 Identification of the substance/mixture and of the company/undertaking.

|  |  |                    |
|--|--|--------------------|
| <b>1.1 Product identifier</b>  | Insectrol Powder   | HSE 5974/PCS 93949 |
| <b>1.2 Relevant identified uses of the substance or mixture and uses advised against</b> | An insecticide for amateur use against flying and crawling insects such as wasps, fleas, ants, cockroaches, beetles and other insects. A white to grey, free flowing powder for use in domestic and commercial premises. |                    |
| <b>1.3 Details of the supplier of the safety data sheet</b>                              | Rentokil Initial Supplies, Liverpool, L33 7SR, UK.<br>Product advice line: +44 (0)151 548 5050<br>Emergency line: +44 (0)1342 833 022<br>E-mail: sds@rentokil.com  |                    |
| National contact   | Rentokil Initial Supplies, Liverpool, L33 7SR, UK.<br>Product advice line: +44 (0)151 548 5050<br>Emergency line: +44 (0)1342 833 022<br>E-mail: sds@rentokil.com  |                    |
| <b>1.4 Emergency telephone number</b>  | 0844 892 011 (for use by medical professionals only).  |                    |

## SECTION 2 Hazards Identification

### 2.1 Classification of the substance or mixture

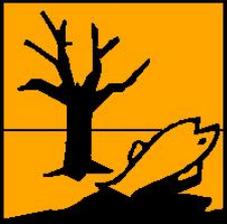
Classification according to Regulation (EC) 1272/2008.

Not applicable. See section 16.

Classification according to Directive 1999/45/EC (See section 16)

|   |                                |        |
|---|--------------------------------|--------|
| N | Dangerous for the environment. | R50/53 |
|---|--------------------------------|--------|

### 2.2 Label elements

|  |  |  |
|--|--|--|
|  | Dangerous for the environment.   |  |
| Risk phrase(s) (R), in full / Hazard statement(s) (H), in full.                    | R50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. |  |
| Safety phrase(s) (S), in full / Precautionary Statement(s) (P), in full.           | S24: Avoid contact with skin.<br>S29: Do not empty into drains.  |  |

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S35: This material and its container must be disposed of in a safe way.  
 S45: In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).  
 Precautionary statements are not required.

Contains permethrin. May produce an allergic reaction.  
 To avoid risks to man and the environment, comply with the instructions for use.

### 2.3 Other hazards

No other significant adverse effects expected under normal conditions of handling and use.

## SECTION 3 Composition/Information on Ingredients (See section 16)

### 3.2 Mixtures

| % w/w | Common*/ Chemical Name (IUPAC)  | CAS No.                  | EC No.                  | Index No.    | REACH Registration No. | Directive 67/548/EEC classification | Regulation (EC) No 1272/2008 classification   |
|-------|---|--------------------------|-------------------------|--------------|------------------------|-------------------------------------|---|
| 0.498 | Permethrin*/ m-phenoxybenzyl 3-(2,2-dichlorovinyl)-2,2-dimethyl-cyclopropanecarboxylate (cis:trans ratio 25:75) | 52645-53-1               | 258-067-9               | 613-058-00-2 | -                      | Xn: R20/22<br>R43 N: R50/53         | Acute Tox. 4 : H302<br>H332 Skin Sens. 1 : H317<br>Aquatic Acute 1 : H400<br>Aquatic Chronic 1 : H410 |
| <50.0 | Talc/Chlorite*  | 14807-96-6/<br>1318-59-8 | 238-877-9/<br>215-285-9 | -            | -                      | Not classified.                     | Not classified.   |
| <50.0 | Calcium carbonate   | 471-34-1                 | 207-439-9               | -            | -                      | Not classified.                     | Not classified.   |

## SECTION 4 First-Aid Measures

### 4.1 Description of first aid measure

|                        |  |
|------------------------|--|
| Inhalation             | Remove patient to fresh air, keep warm and at rest. Apply supportive measures if necessary and seek medical attention.   |
| Eye Contact            | Rinse affected eye with clean running water, or eyewash solution, for at least 15 minutes holding eyelids well apart. Rinse entire surface and do not allow run-off to contaminate unaffected eye. Seek medical attention. |
| Skin Contact           | Remove and wash contaminated clothing immediately. Wash affected area thoroughly with soap and water. If the patient feels unwell seek medical advice.   |
| Ingestion (Swallowing) | This route of exposure is not anticipated.   |

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

|                               |   |
|-------------------------------|---|
| Emergency Equipment Suggested | Appropriate first-aid equipment should be provided. |
|-------------------------------|---|

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

|                |   |
|----------------|---|
| Note To Doctor | Further information on all Rentokil Initial formulations is lodged with the local National Poisons Information Service. |
| Antidote       | No specific antidote known. Treatment is symptomatic.   |

## SECTION 5 Fire Fighting Measures

### 5.1 Extinguishing media

|                                |  |
|--------------------------------|--|
| Suitable extinguishing media   | This product is not flammable. Choose extinguishing media suitable for the surroundings. |
| Unsuitable extinguishing media | None known.  |

|  |  |
|--|--|
| <b>5.2 Special hazards arising from the substance or mixture</b> | Nitrogen oxides and carbon monoxide may be formed on combustion.   |
| <b>5.3 Advice for fire fighters</b>                              | Wear suitable personal protective equipment conforming to EN469 including self-contained breathing apparatus, suitable gloves and boots. |

## SECTION 6 Accidental Release Measures

|  |  |
|--|--|
| <b>6.1 Personal precautions, protective equipment and emergency procedures</b> | Wear suitable personal protective equipment.   |
| <b>6.2 Environmental precautions</b>   | This product is classified as dangerous for the environment. Keep away from drains, surface and ground water and soil.         |
| <b>6.3 Methods and material for containment and cleaning up</b>                | Gather up spilt material being careful not to create dust clouds and transfer to a suitable container for subsequent disposal. |
| <b>6.4 Reference to other sections</b>   | Please also see sections 8 and 13 for further information.   |
| Additional information   | Clear spills immediately.  |

## SECTION 7 Handling and Storage

|   |   |
|---|---|
| <b>7.1 Precautions for safe handling</b>                                | Do not breathe dust.  |
| <b>7.2 Conditions for safe storage, including any incompatibilities</b> | Keep away from oxidising agents. Store in original container in a cool, dry, ventilated place out of the reach of children and away from food, drink and animal feeding stuffs. |
| <b>7.3 Specific end use(s)</b>  | Insecticide.  |

## SECTION 8 Exposure Controls/Personal Protection

### 8.1 Control Parameters

|  |   |   |
|--|---|---|
| Exposure standard - Directive 98/24/EC (1st IOELV Directive) | <b>Workplace Exposure Limit (WEL) long-term exposure (8 hour Time Weighted Average)</b> | For: Talc (respirable) is 1 mg/m <sup>3</sup> .<br>For: Calcium carbonate (respirable dust) is 4 mg/m <sup>3</sup> .<br>For: Calcium carbonate (inhalable dust) is 10 mg/m <sup>3</sup> . |
|  | <b>Workplace Exposure Limit (WEL) short-term exposure (15 minute reference period)</b>  | Not applicable.   |
|  | <b>Substance name used in Directive EC/98/24 (1st IOELV Directive)</b>                  | Not applicable.   |

### 8.2 Exposure Controls

|                                  |  |
|----------------------------------|--|
| Appropriate engineering controls | None necessary.  |
| Individual Protection Measures   |  |
| Eye/face protection              | Label advice indicates none necessary under normal handling and use. However, consider other precautionary requirements. |
| Hand protection                  | Label advice indicates none necessary under normal handling and use. However, consider other precautionary requirements. |
| Skin/body protection             | Label advice indicates none necessary under normal handling and use. However, consider other precautionary requirements. |
| Respiratory protection           | Label advice indicates none necessary under normal handling and use. However, consider other precautionary requirements. |
| Environmental Exposure Controls  | Use only in accordance with instructions given.  |

## SECTION 9 Physical and Chemical Properties

### 9.1 Information on basic physical and chemical properties

|   |   |  |                 |
|---|---|--|-----------------|
| Appearance, odour and physical state    | A fine, off-white powder with no perceptible odour. |  |                 |
| pH                                      | Not determined.                                     | Solubility in water                    | Insoluble.      |
| Density                                 | Not determined.                                     | Solubility in other solvents           | Not determined. |
| Relative density                        | 0.45 (untapped)                                     | Explosive properties                   | Not determined. |
| Flash point                             | Not determined.                                     | Combustibility                         | Not determined. |
| Flammability                            | Non-flammable.                                      | Oxidising properties                   | Not determined. |
| Initial boiling Point and boiling range | Not determined.                                     | Evaporation rate                       | Not determined. |
| Vapour Density                          | Not determined.                                     | Partition coefficient: n-octanol/water | Not determined. |
| Vapour pressure                         | Not determined.                                     | Decomposition temperature              | Not determined. |
| Melting point / Freezing point          | Not determined.                                     | Auto-ignition temperature              | Not determined. |

### 9.2 Other Information

|  |                 |                          |             |
|--|-----------------|--------------------------|-------------|
| Upper/lower flammability or explosive limits | Not applicable. | Other safety information | None known. |
| Viscosity                                    | Not determined. |                          |             |

## SECTION 10 Stability and Reactivity

|   |   |
|---|---|
| 10.1 Reactivity                         | This product is stable under normal conditions of handling and use. |
| 10.2 Chemical stability                 | This product is stable under normal conditions of handling and use. |
| 10.3 Possibility of hazardous reactions | None expected under normal conditions of handling and use.          |
| 10.4 Conditions to avoid                | Avoid high temperatures.  |
| 10.5 Incompatible materials             | Avoid oxidising agents, strong acids and bases.                     |
| 10.6 Hazardous decomposition products   | Nitrogen oxides and carbon monoxide may be formed on combustion.    |

## SECTION 11 Toxicological Information (see also box 2)

### 11.1 Information on toxicological effects

|                         |                   |   |
|-------------------------|-------------------|---|
| Acute Toxicity          | Oral              | For permethrin LD <sub>50</sub> (rat) > 2000 mg/kg.<br>For d-Allethrin LD <sub>50</sub> (rat) > 1000 mg/kg.     |
|                         | Inhalation        | For permethrin LC <sub>50</sub> (rat) > 0.45 mg/L.<br>For d-Allethrin LC <sub>50</sub> (rat) > 5.77 mg/L (4 h). |
|                         | Dermal            | For permethrin LD <sub>50</sub> (rat) > 2000 mg/kg.<br>For d-Allethrin LD <sub>50</sub> (rat) > 2000 mg/kg.     |
| Corrosivity/ Irritation | Skin              | Unlikely to cause irritation.   |
|                         | Eyes              | May be irritating to eyes.  |
|                         | Respiratory tract | Irritating to respiratory tract   |
| Sensitisation           | Skin              | Contains less than 1% skin sensitisers in the form of permethrin.   |
|                         | Respiratory       | Contains no known respiratory sensitisers.  |

|                         |   |   |
|-------------------------|---|---|
| Repeated dose toxicity; | Product does not contain any components known to have any effects relating to repeated-dose toxicity. |   |
| Mutagenicity            | Product does not contain any components known to have a mutagenic effect.                             |   |
| Carcinogenicity         | Product does not contain any components known to have a carcinogenic effect.                          |   |
| Reproductive Toxicity   | Fertility   | Product does not contain any components known to have effects on fertility.           |
|                         | Developmental   | Product does not contain any components known to be toxic to the reproductive system. |
| Other data              | None known.   |   |

## SECTION 12 Ecological Information

### 12.1 Toxicity

|  |  |
|--|--|
| General information                            | This product is classified as very toxic to aquatic organisms and may cause long-term adverse effects in the aquatic environment. However, when used in accordance with instructions given, controlled release of this product is not expected to cause environmental contamination.   |
| Ecotoxicity data                               | For permethrin:<br>Fish ( <i>Poecilia reticulata</i> ) LC <sub>50</sub> (96 h) 0.0089 mg/L<br>Fish ( <i>Cyprinus carpio</i> ) LC <sub>50</sub> (96 h) 0.145 mg/L<br>Daphnia ( <i>Daphnia magna</i> ) EC <sub>50</sub> (24 h) 0.020 mg/L<br>Algae ( <i>Scenedesmus subspicatus</i> ) EC <sub>50</sub> (72 h) 0.022 mg/L.<br>Other ( <i>Lampito mauritii</i> ) LC <sub>50</sub> >1200 mg/L<br>Toxic to bees. |
| <b>12.2 Persistence and degradability</b>      | For Permethrin: degrades rapidly in soil, DT50 ≤28days. Disappears rapidly from aqueous environment, 6-24hours from ponds and streams and 7 days from pond sediment.   |
| <b>12.3 Bioaccumulative potential</b>          | This product is not expected to bioaccumulate.   |
| <b>12.4 Mobility in soil</b>                   | Permethrin is strongly adsorbed to soil particles with no risk of leaching.  |
| <b>12.5 Results of PBT and vPvB assessment</b> | Does not meet requirements for assessment.   |
| <b>12.6 Other Adverse Effects</b>              | Toxic to bees.   |

## SECTION 13 Disposal Considerations

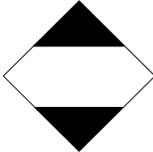
|  |   |                     |
|--|---|---------------------|
| <b>13.1 Waste treatment methods</b>  | This product should be disposed in accordance with the information given on the product label.  |                     |
| Product/packaging disposal   | This product is for amateur use and can be disposed of as normal household waste. However, if used in a place of work, any product and empty container must be disposed of as controlled waste. |                     |
| Classification (Council Directive 91/689/EC, Commission Decision 2000/532/EC (amended) Commission Decision 2001/118/EC)) | Hazard Code:<br>H14 - Ecotoxic.   |                     |
|  | Substances making the waste hazardous:  | Concentrations (%): |
|  | Permethrin*/ m-phenoxybenzyl 3-(2,2-dichlorovinyl)-2,2-dimethyl-cyclopropanecarboxylate (cis:trans ratio 25:75)   | 0.498               |
| Note for Disposal  | Disposal must be in accordance with Local, State or National Requirements.  |                     |

## SECTION 14 Transport Information (International unless otherwise indicated)

### ADR 2011 (International Road) / IMDG 2010 (Sea)

|                                     |  |                 |               |
|-------------------------------------|--|-----------------|---------------|
| <b>14.1 UN number</b>               | UN 3077  | <b>RIS Code</b> | 150g<br>PS128 |
| <b>14.2 UN Proper Shipping Name</b> | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (contains permethrin) |                 |               |

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|  |  |  |  |
|--|--|--|--|
| <b>14.3 Transport hazard class(es)</b>   | 9  |  |  |
| ADR HIN  | 90   |  |  |
| UK Hazchem EAC   | 2Z   |  |  |
| IMDG EMS   | F-A, S-F   |  |  |
| <b>14.4 Packing Group</b>  | III  | <b>Labels</b><br> |  |
| Transport Category   | 3  |  |  |
| <b>14.5 Environmental hazards</b>  | Not applicable.  |  |  |
| Marine pollutant   | Not applicable.  |  |  |
| Additional precautions   | Not applicable.  |  |  |
| <b>14.6 Special precautions for user</b>   | SP 274, 335, 601   |  |  |
| <b>14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code</b> | Not applicable.  |  |  |
| Limited Quantity Exemptions  | Maximum quantity per inner receptacle is 5 kg. Maximum per outer package is 30 kg. Combination packs only. |  |  |
| Note for Transport   | Local, State or National requirements may apply to the carriage of this product.                           |  |  |

## SECTION 15 Regulatory Information

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

|   |  |
|---|--|
| Authorisations and/or restrictions on use | Information to be made available according to ECHA review programme.   |
| Other EU regulations                      | This safety data sheet was prepared in accordance with EC Directive 1907/2006. Labelling is in accordance with EC Directive 1999/45. Additional labelling requirements may be necessary in accordance with other National legislation. The registration of this product may be necessary before use and any additional local requirements must be observed at all times. Other National measures or guidance should be followed where appropriate. |
| <b>15.2 Chemical safety assessment</b>    | Information to be made available according to ECHA review programme.   |

## SECTION 16 Other Information

|                            |   |
|----------------------------|---|
| Revisions                  | Changes have been made to the content of boxes 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, compared with issue 3.  |
| Abbreviations and acronyms | <p>Typical standard abbreviations and acronyms used in Rentokil Initial Safety Data Sheets are as follows:</p> <p>ADR 2011 - International Carriage of Dangerous Goods by Road (ADR)<br/>ADR HIN - ADR Hazard Identification Number (HIN)<br/>Annex I DNEL or PNEC - Derived No Effect Level / Predicted No Effect Concentration<br/>CAS No - Chemicals Abstract Service Registry Number<br/>COSHH assessments - Control of Substances Hazardous to Health<br/>ECHA - European Chemicals Agency<br/>EC No - European Commission number<br/>EN469 - European standard for Personal Protective Equipment used for fire fighting<br/>EN standards for PPE - European Standards for Personal Protective Equipment<br/>EWC - European Waste Catalogue Code<br/>IMDG 2010 - International Maritime Dangerous Goods (IMDG) Code<br/>IUPAC - International Union of Pure and Applied Chemistry<br/>LD<sub>50</sub> - Median lethal dose<br/>LC<sub>50</sub> - Lethal concentration<br/>REACH - Registration, Evaluation, Authorisation and restriction of Chemicals<br/>RIS Code - Internal manufacturing code number<br/>WEL - Workplace Exposure Limit<br/>UK Hazchem EAC - UK Hazchem Emergency Action Code</p> <p>Typical Directives and Regulations referred to Rentokil Initial Safety Data Sheets are as follows:</p> <p>Commission Decision 95/320/EC - Scientific Committee for Occupational Exposure Limits to Chemical Agents<br/>Commission Decision 2000/532/EC - List of wastes<br/>Commission Decision 2001/118/EC - Amendment to 2000/532/EC with regards to List of wastes<br/>Directive 67/548/EEC - Dangerous Substances Directive<br/>Directive 76/768/EC (as amended) - The Cosmetics Directive<br/>Directive 89/686/EEC - The Personal Protective Equipment (PPE) Directive<br/>Directive 91/689/EC - Directive on Hazardous waste<br/>Directive 98/24/EC (1st IOELV Directive) - Chemical Agents Directive 98/24/EC Protection of the Health and Safety of Workers from the Risks from Chemical Agents IOELV Directive: Indicative Occupational Exposure Limit Values<br/>Directive 1907/2006 - REACH (Registration, Evaluation, Authorisation and restriction of Chemicals)<br/>Directive 1999/45/EC - Dangerous Preparations Directive<br/>Directive 2004/37/EC - Carcinogens and Mutagens Directive<br/>Regulation (EC) No. 648/2004 - Detergents Regulation<br/>Regulation (EC) No 1272/2008 - Classification, Labelling and Packaging</p> |

|   |   |
|---|---|
| <b>Key literature references and sources for data</b>   | For details of the data and information sources used, please contact Rentokil Initial using the details in Section 1.   |
| <b>Classification and used classification procedure for mixtures labelled to Directive 1999/45/EC according to Regulation (EC) No 1272/2008</b> | Not currently classified to Regulation (EC) No. 1272/2008 until 31/05/2015.   |
| <b>Risk phrase/Hazard statement text</b> (From section 3 - These refer to the ingredients only. See section 2 for the product risk phrases)     | R20: Harmful by inhalation.<br>R22: Harmful if swallowed.<br>R41: Risk of serious damage to eyes.<br>R50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.<br>H302: Harmful if swallowed.<br>H332: Harmful if inhaled.<br>H317: May cause an allergic skin reaction.<br>H400: Very toxic to aquatic life.<br>H410: Very toxic to aquatic life with long lasting effects. |
| <b>Training advice</b>  | Use biocides safely. Always read the label and product information before use.  |
| <b>Further Information</b>  | 150g in a white high density polyethylene bottle with a child-resistant screw top.  |

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**Before using any product, ensure that you read and understand its label.**

The information contained in this safety data sheet is, to the best of our knowledge and belief, accurate and reliable at the time of publication. The information relates only to the specific material designated in this safety data sheet and may not be valid for such material if it is used in combination with any other material(s) or any other use than that specified herein. Neither Rentokil Initial plc nor any of its subsidiaries accepts any liability for the use of this product for any other purpose than that described in this safety data sheet. This does not affect your statutory rights. It is the user's responsibility to satisfy him/herself as to the suitability in completeness of such information for his/her own particular use.