

# Safety Data Sheet

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**REVISION (see box 16)**

Issue : 02 24 : 08 : 2009

| 1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY |  |                               |
|---|--|-------------------------------|
| Product Name  | <b>INSECTROL POWDER</b>  | <b>HSE 5974<br/>PCS 93949</b> |
| Description   | 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. |                               |
| Company   | Rentokil Initial Supplies, Liverpool, L33 7SR.<br>Product advice line: +44 (0)151 548 5050<br>Emergency line: +44 (0)1293 858 000<br>E-mail: <a href="mailto:sds@rentokil.com">sds@rentokil.com</a>                      |                               |

| 2 HAZARD IDENTIFICATION   |        |  |
|---|--------|--|
| Classification (Supply – Use) : In compliance with EC Directive 1999/45.  |        |  |
| <b>N Dangerous for the environment</b>  | R50/53 | Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. |
| <b>Adverse Physical, Chemical, Significant Human Health and Environmental Effects (See also box 11):</b>  |        |  |
| Prolonged contact with the powder may cause dryness of the skin and irritation to the respiratory tract. Symptoms may include coughing, sneezing and difficulty in breathing. 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. |        |  |
| No other significant adverse effects expected under normal conditions of handling and use.  |        |  |

| 3 COMPOSITION / INFORMATION ON INGREDIENTS (SEE ALSO BOX 16) |   |   |
|--|---|---|
| % w/w  | Common*/Chemical Name, ELINCS/EINECS & CAS No. of Ingredients   | EC 1999/45 Classification   |
| 0.498  | Permethrin* / m-phenoxybenzyl 3-(2,2-dichlorovinyl)-2,2 dimethylcyclopropanecarboxylate<br>EINECS : 258-067-9<br>CAS : 52645-53-1 | X <sub>n</sub> : R20/22<br>: R43<br>N : R50,53  |
| >25.0 ≤50.0  | Talc*<br>EINECS : 238-877-9<br>CAS : 14807-96-6   | Not classified. Substance with a Community Workplace Exposure Limit (refer to box 8). |
| >25.0 ≤50.0  | Calcium carbonate*<br>EINECS : 207-439-9<br>CAS : 471-34-1  | Not classified. Substance with a Community Workplace Exposure Limit (refer to box 8). |
| >0.1 ≤2.5  | Quartz*<br>EINECS : 238-878-4<br>CAS : 14808-60-7   | Not classified. Substance with a Community Workplace Exposure Limit (refer to box 8). |
| >0.1 ≤2.5  | Diatomaceous earth*<br>EINECS : N/A<br>CAS : 61790-53-2   | Not classified. Substance with a Community Workplace Exposure Limit (refer to box 8). |
| >0.1 ≤1.0  | Kaolin*<br>EINECS : 310-194-1<br>CAS : 1332-58-7  | Not classified. Substance with a Community Workplace Exposure Limit (refer to box 8). |

## INSECTROL POWDER

| <b>4 FIRST-AID MEASURES (SEE ALSO "ADVERSE EFFECTS" IN BOX 2)</b> |  |
|---|--|
| <b>Inhalation</b>   | Remove patient to fresh air, keep warm and at rest. Apply supportive measures if necessary and seek medical attention.   |
| <b>Eye Contact</b>  | 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. |
| <b>Skin Contact</b>   | Remove and wash contaminated clothing immediately. Wash affected area thoroughly with soap and water. If the patient feels unwell seek medical advice.   |
| <b>Ingestion (Swallowing)</b>                                     | Do NOT induce vomiting. If unconscious place in the recovery position and apply supportive measures if necessary. If conscious give patient up to ½ litre or 1 pint of water to drink. Seek medical attention.             |
| <b>Emergency Equipment Suggested</b>                              | Appropriate first-aid equipment should be provided. For the UK this should be in accordance with the Health & Safety (First-Aid) Regulations 1981. See also the Approved Code of Practice "First-aid at Work".             |
| <b>Note To Doctor</b>   | Further information on all Rentokil Initial formulations is lodged with the National Poisons Information Service in the UK.  |

| <b>5 FIRE FIGHTING MEASURES</b>         |   |
|---|---|
| <b>Fire Extinguisher Type</b>           | Use carbon dioxide, foam, water, or dry powder extinguishers. DO NOT use a water jet. |
| <b>Special Fire-Fighting Procedures</b> | Wear suitable personal protective equipment.  |
| <b>Special Exposure Hazards</b>         | In case of fire the evolution of dangerous gases is possible.                         |

| <b>6 ACCIDENTAL RELEASE MEASURES</b>         |   |
|--|---|
| <b>Personal Precautions (See also box 8)</b> | Wear suitable personal protective equipment.  |
| <b>Environmental Precautions</b>             | This product is classified as dangerous for the environment. Keep away from drains, surface and ground water, and soil.                   |
| <b>Clean-up Procedure (See also box 13)</b>  | Spills should be swept up carefully, avoiding formation of a dust cloud, and transferred to a suitable container for subsequent disposal. |

| <b>7 HANDLING AND STORAGE (SEE ALSO BOX 8)</b> |  |
|--|--|
| <b>Handling</b>                                | No specific handling requirements.   |
| <b>Storage</b>                                 | 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>8 EXPOSURE CONTROLS/PERSONAL PROTECTION</b>                                 |   |
|--|---|
| <b>Exposure Standard - Directive EC/98/24 (1<sup>st</sup> IOELV Directive)</b> | Workplace Exposure Limit (WEL) for calcium carbonate (inhalable dust) is 10 mg/m <sup>3</sup> long-term exposure (8 hour Time Weighted Average (8hrTWA)) and for calcium carbonate (respirable dust) is 4 mg/m <sup>3</sup> long-term exposure (8hrTWA).<br>WEL for quartz is 0.1 mg/m <sup>3</sup> long-term exposure. Quartz is referred to as silica, respirable crystalline in Directive EC/98/24 (1 <sup>st</sup> IOELV Directive).<br>WEL for talc (respirable dust) is 1 mg/m <sup>3</sup> long-term exposure.<br>WEL for kaolin (respirable dust) is 2 mg/m <sup>3</sup> long-term exposure.<br>WEL for diatomaceous earth (respirable dust) is 1.2 mg/m <sup>3</sup> long-term exposure. |
| <b>Engineering Controls</b>  | Where exposure may occur, engineering controls, rather than the provision of Personal Protective Equipment (PPE) should be employed. On completion of a risk assessment, the following PPE may be required:   |
| <b>Eye Protection</b>  | Label advice indicates none necessary under normal handling and use. However, consider other precautionary requirements.  |
| <b>Hand Protection</b>   | Label advice indicates none necessary under normal handling and use. However, consider other precautionary requirements.  |
| <b>Skin Protection</b>   | Label advice indicates none necessary under normal handling and use. However, consider other precautionary requirements.  |
| <b>Breathing Protection</b>  | Label advice indicates none necessary under normal handling and use. However, consider other precautionary requirements.  |
| <b>Environmental Exposure Controls</b>   | Use only in accordance with instructions given.   |

| <b>9 PHYSICAL AND CHEMICAL PROPERTIES</b> |   |                                     |                 |
|---|---|-------------------------------------|-----------------|
| <b>Appearance and Odour</b>               | A white to grey, free flowing, insecticidal powder. |                                     |                 |
| <b>pH</b>                                 | Not applicable.                                     | <b>Solubility in Water</b>          | Insoluble.      |
| <b>Density</b>                            | 0.56 g/cm <sup>3</sup>                              | <b>Solubility in Other Solvents</b> | Not determined. |
| <b>Flash Point</b>                        | Not applicable.                                     | <b>Explosive Properties</b>         | Not determined. |
| <b>Flammability</b>                       | Non-flammable.                                      | <b>Combustibility</b>               | Not determined. |
| <b>Boiling Point/Range</b>                | Not applicable.                                     | <b>Oxidising Properties</b>         | Not determined. |
| <b>Vapour Density</b>                     | Not applicable.                                     | <b>Evaporation Rate</b>             | Not applicable. |
| <b>Vapour Pressure</b>                    | Not applicable.                                     | <b>Partition Coefficient</b>        | Not applicable. |
| <b>Viscosity</b>                          | Not applicable.                                     | <b>Other Data</b>                   | None known.     |

## INSECTROL POWDER

## 10 STABILITY AND REACTIVITY

|                                     |   |
|-------------------------------------|---|
| <b>Conditions to avoid</b>          | Avoid extremes of temperature, e.g. below 0°C and above 40°C. |
| <b>Materials to avoid</b>           | None known.   |
| <b>Hazardous Breakdown Products</b> | In case of fire the evolution of dangerous gases is possible. |

## 11 TOXICOLOGICAL INFORMATION (SEE ALSO BOX 2)

|                               |                   |   |
|-------------------------------|-------------------|---|
| <b>Acute Toxicity</b>         | Oral              | For permethrin: LD <sub>50</sub> (rat) : > 2000 mg/kg   |
|                               | Inhalation        | For permethrin: LD <sub>50</sub> (rat) (4hr) : 4.10 mg/L  |
|                               | Dermal            | For permethrin: LD <sub>50</sub> (rat) : > 1000 mg/kg   |
| <b>Corrosivity/Irritation</b> | Skin              | Prolonged contact with powder may cause dryness of the skin.  |
|                               | Eyes              | Temporary discomfort of eyes may occur due to mechanical irritation from the powder.  |
|                               | Respiratory tract | The powder may irritate the respiratory system or lungs. Symptoms may include coughing, expectoration, sneezing and difficulty in breathing.                    |
| <b>Sensitisation</b>          | Skin              | Contains less than 1% skin sensitisers in the form of permethrin.   |
|                               | Respiratory       | Contains no known respiratory sensitisers.  |
| <b>Repeat-Dose Toxicity</b>   |                   | Product does not contain any components known to have any effects relating to repeated-dose toxicity.   |
| <b>Mutagenicity</b>           |                   | Product does not contain any components known to have a mutagenic effect.   |
| <b>Carcinogenicity</b>        |                   | Product does not contain any components known to have a carcinogenic effect.  |
| <b>Reproductive Toxicity</b>  | Fertility         | Product does not contain any components known to have effects on fertility.   |
|                               | Development       | Product does not contain any components known to be toxic to the reproductive system.   |
| <b>Other Information</b>      |                   | 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. |


## 12 ECOLOGICAL INFORMATION

|                                      |  |
|--------------------------------------|--|
| <b>General Information</b>           | 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. |
| <b>Ecotoxicity Data</b>              | For permethrin:<br>LC <sub>50</sub> : Guppy ( <i>Poecilia reticulata</i> ) (96h): 0.0076 mg/L<br>EC <sub>50</sub> : Water flea ( <i>Daphnia magna</i> ) (48h): 0.00017 mg/L<br>EC <sub>50</sub> ( <i>Selenastrum capricornutum</i> ) (72h): 0.497mg/L                                |
| <b>Mobility</b>                      | Not determined.  |
| <b>Persistence and Degradability</b> | The calcium carbonate in this product is not biodegradable.  |
| <b>Bioaccumulative Potential</b>     | Not determined.  |
| <b>Other Adverse Effects</b>         | None known.  |

## 13 DISPOSAL CONSIDERATIONS

|   |   |  |                             |            |       |
|---|---|--|-----------------------------|------------|-------|
| <b>Disposal of Waste / Containers</b>   | This product is dangerous for the environment. Do not discharge to sewers, drains or watercourses.<br>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 must be disposed of as hazardous waste while the empty container may be disposed of as controlled waste in accordance with the appropriate regulations.  |  |                             |            |       |
| <b>Classification</b><br>(Council Directive 91/689/EC,<br>Commission Decision 2000/532/EC<br>(amended) Commission Decision<br>2001/118/EC)) | <u>Hazard Code</u> : H14-Ecotoxic.  |  |                             |            |       |
| <b>Note for Disposal</b>  | <table><tr><td><u>Components making the waste hazardous</u></td><td><u>Concentrations (%)</u>:</td></tr><tr><td>Permethrin</td><td>0.498</td></tr></table><br>The best means of disposal of any product is through proper use according to the label. For further advice about disposal in the UK, contact the local office of the Environment Agency (England and Wales) or Scottish Environment Protection Agency.<br>Local rate from anywhere in the UK: +44(0) 870 850 6506 | <u>Components making the waste hazardous</u> | <u>Concentrations (%)</u> : | Permethrin | 0.498 |
| <u>Components making the waste hazardous</u>  | <u>Concentrations (%)</u> :   |  |                             |            |       |
| Permethrin  | 0.498   |  |                             |            |       |

## INSECTROL POWDER

| 14 TRANSPORT INFORMATION (INTERNATIONAL UNLESS OTHERWISE INDICATED) |   |                   |   |
|---|---|-------------------|---|
| UN No.  | UN3077  |                   | RIS Code  |
| Transport Category  | 3   | UK Hazchem EAC    | 2Z<br>PS128   |
| ADR 2009 (International Road) Proper Shipping Name                  | Class 9   | ADR HIN 90        |  |
| Limited Quantity Exemptions   | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (contains permethrin).<br>Maximum quantity per inner receptacle is 6 kg. Maximum quantity per outer package is 30kg. Combination packs only. |                   |   |
| Special Requirements  | Not required. <b>Packing Group III</b>  |                   |   |
| IMDG 2008 (Sea) Proper Shipping Name                                | Class 9   | IMDG EMS F-A, S-F |   |
| Limited Quantity Exemptions   | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (contains permethrin).<br>Maximum quantity per inner receptacle is 5 kg. Maximum quantity per outer package is 30kg. Combination packs only. |                   |   |
| Special Requirements  | Not required. <b>Packing Group III</b>  |                   |   |
| Note for Transport  | Local, State or National requirements may apply to the carriage of this product.  |                   |   |

| 15 REGULATORY INFORMATION (HEALTH AND SAFETY INFORMATION (SEE ALSO BOX 2)) |   |
|--|---|
| Safety Phrases   | S2 : Keep out of the reach of children.<br>S22 : Do not breathe dust.<br>S29 : Do not empty into drains.<br>S35 : This material and its container must be disposed in a safe way.<br>S45 : In case of accident or if you feel unwell seek medical advice immediately (show the label where possible).   |
| Additional Label Phrases   | Contains permethrin. May produce an allergic reaction.<br>To avoid risks to man and the environment, comply with the instructions for use.  |
| Legislation  | Labelling is in accordance with UK regulations implementing the EC Directive 1999/45.<br>Additional labelling requirements may be necessary in accordance with other National legislation. Outside the UK, the registration of this product may be necessary before use and any additional local requirements must be observed at all times.<br>The information given on this Safety Data Sheet (SDS) <b>does not</b> constitute an assessment in accordance with Control of Substances Hazardous to Health (COSHH) Regulations 2002, in the UK.<br>Other National measures or guidance should be followed where appropriate. |

| 16 Other Information and indication of revisions  |  |
|---|--|
| Packaging Information   | A white, 150g, high density polyethylene bottle.   |
| Revisions   | Changes have been made to the content of boxes 01, 02, 03, 05, 08, 11, 12, 13, 14 & 16 (as indicated by the thick lines on the left-hand side of the boxes) compared with issue 01.                            |
| Risk phrase text (From box 3 - These refer to the ingredients only. See box 2 for the product risk phrases) | R20/22 : Harmful by inhalation and if swallowed.<br>R43 : May cause sensitisation by skin contact.<br>R50,53 : Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment |

## INSECTROL POWDER

SDS No. 965

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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. Rentokil Initial UK Ltd is not liable 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.

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