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

1.1 Product identifier
Ant and Insect Killer Powder
HSE 5810

1.2 Relevant identified uses of the substance or mixture and uses advised against
An insecticide for amateur use against ants and other crawling insects such as wasps, fleas, cockroaches, beetles and other insects. A white to grey, free flowing powder for use in domestic and commercial premises.

1.3 Details of the supplier of the safety data sheet
Rentokil Initial Supplies, Liverpool, L33 7SR, UK.
Product advice line: +44 (0)151 548 5050
Emergency line: +44 (0)1342 833 022
E-mail: sds@rentokil.com

National contact
Rentokil Initial Supplies, Liverpool, L33 7SR, UK.
Product advice line: +44 (0)151 548 5050
Emergency line: +44 (0)1342 833 022
E-mail: sds@rentokil.com

1.4 Emergency telephone number
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. RS1/53

2.2 Label elements

Risk phrase(s) (R), in full / Hazard statement(s) (H), in full.
Dangerous for the environment.

RS1/53: 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.
S29: Do not empty into drains.
S35: This material and its container must be disposed of in a safe way.
2.3 Other hazards

This product contains an anticholinesterase carbamate compound. Excessive or prolonged inhalation may cause dizziness, headache, excessive sweating, abdominal pain, salivation, lachrymation, bradycardia, bronchoconstriction, muscular twitching, unconsciousness, convulsions and paralysis. Direct contact with eyes could lead to temporarily impaired vision. Symptoms of ingestion are mainly as for inhalation, plus nausea and vomiting. Prolonged or repeated exposure with product may cause skin dryness and may cause eye irritation and smarting. No other significant adverse effects expected under normal conditions of handling and use.

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

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>0.504</td>
<td>Bendiocarb*/2,2-dimethyl-1,3-benzodioxol-4-yl N-methylcarbamate</td>
<td>22781-23-3</td>
<td>245-216-8</td>
<td>006-046-00-8</td>
<td>-</td>
<td>T: R21 R23/25 N: R50/53</td>
<td>Acute Tox. 3 : H301 H331 Acute Tox. 4 : H312 Aquatic Chronic 2 : H411</td>
</tr>
<tr>
<td>&lt;50.0</td>
<td>Calcium carbonate</td>
<td>471-34-1</td>
<td>207-439-9</td>
<td>-</td>
<td>-</td>
<td>Not classified.</td>
<td>Not classified.</td>
</tr>
</tbody>
</table>

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)
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.

4.2 Most important symptoms and effects both acute and delayed (See section 2.3)

Emergency Equipment Suggested
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”.

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 known antidote.

SECTION 5 Fire Fighting Measures

5.1 Extinguishing media

Suitable extinguishing media
Use carbon dioxide, foam, water, or dry powder extinguishers.

Unsuitable extinguishing media
None known.

5.2 Special hazards arising from the substance or mixture

Above thermal decomposition temperature (>125 C) product will liberate strong lachrymatory methyl isocyanate. Methyl isocyanate has a very low flash point (-6 C) and will be rapidly consumed in the event of a fire.
### 5.3 Advice for fire fighters
Wear suitable personal protective equipment.

### SECTION 6 Accidental Release Measures

<table>
<thead>
<tr>
<th>6.1 Personal precautions, protective equipment and emergency procedures</th>
<th>Wear suitable personal protective equipment.</th>
</tr>
</thead>
<tbody>
<tr>
<td>6.2 Environmental precautions</td>
<td>This product is classified as dangerous for the environment. Keep away from drains, surface and ground water and soil.</td>
</tr>
<tr>
<td>6.3 Methods and material for containment and cleaning up</td>
<td>Gather up spilt material being careful not to create dust clouds and transfer to a suitable container for subsequent disposal.</td>
</tr>
<tr>
<td>6.4 Reference to other sections</td>
<td>Please also see sections 8 and 13 for further information.</td>
</tr>
<tr>
<td>Additional information</td>
<td>None.</td>
</tr>
</tbody>
</table>

### SECTION 7 Handling and Storage

<table>
<thead>
<tr>
<th>7.1 Precautions for safe handling</th>
<th>Do not breathe dust.</th>
</tr>
</thead>
<tbody>
<tr>
<td>7.2 Conditions for safe storage, including any incompatibilities</td>
<td>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.</td>
</tr>
<tr>
<td>7.3 Specific end use(s)</td>
<td>Insecticide.</td>
</tr>
</tbody>
</table>

### SECTION 8 Exposure Controls/Personal Protection

#### 8.1 Control Parameters

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Bendiocarb is 0.2 mg/m$^3$ (Bayer Cropscience ‘Occupational Exposure Standard’). For: Talc (respirable) is 1 mg/m$^3$. For: Calcium carbonate (respirable dust) is 4 mg/m$^3$. For: Calcium carbonate (inhalable dust) is 10 mg/m$^3$.</td>
<td>Workplace Exposure Limit (WEL) short-term exposure (15 minute reference period)</td>
<td>Not applicable.</td>
</tr>
</tbody>
</table>

#### 8.2 Exposure Controls

<table>
<thead>
<tr>
<th>Appropriate engineering controls</th>
<th>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:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Individual Protection Measures</td>
<td></td>
</tr>
<tr>
<td>Eye/face protection</td>
<td>Label advice indicates none necessary under normal handling and use. However, consider other precautionary requirements.</td>
</tr>
<tr>
<td>Hand protection</td>
<td>Label advice indicates none necessary under normal handling and use. However, consider other precautionary requirements.</td>
</tr>
<tr>
<td>Skin/body protection</td>
<td>Label advice indicates none necessary under normal handling and use. However, consider other precautionary requirements.</td>
</tr>
<tr>
<td>Respiratory protection</td>
<td>Label advice indicates none necessary under normal handling and use. However, consider other precautionary requirements.</td>
</tr>
<tr>
<td>Environmental Exposure Controls</td>
<td>Use only in accordance with instructions given.</td>
</tr>
</tbody>
</table>

**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

<table>
<thead>
<tr>
<th>Property</th>
<th>Data</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance, odour and physical state</td>
<td>A fine, off-white powder with no perceptible odour.</td>
</tr>
<tr>
<td>pH</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Density</td>
<td>0.6g/cm³ at 20°C</td>
</tr>
<tr>
<td>Relative density</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Flash point</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Flammability</td>
<td>Non-flammable.</td>
</tr>
<tr>
<td>Initial boiling Point and boiling range</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Vapour Density</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Vapour pressure</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Melting point / Freezing point</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Density</td>
<td>0.6g/cm³ at 20°C</td>
</tr>
<tr>
<td>Solubility in water</td>
<td>Insoluble.</td>
</tr>
<tr>
<td>Solubility in other solvents</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Combustibility</td>
<td>Non-combustible.</td>
</tr>
<tr>
<td>Oxidising properties</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Flash point</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Partition coefficient: n-octanol/water</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Vapour pressure</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Upper/lower flammability or explosive limits</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Other safety information</td>
<td>None known.</td>
</tr>
<tr>
<td>Viscosity</td>
<td>Not applicable.</td>
</tr>
</tbody>
</table>

#### 9.2 Other Information

- **Upper/lower flammability or explosive limits**: Not determined.
- **Other safety information**: None known.

### SECTION 10 Stability and Reactivity

#### 10.1 Reactivity

This product is stable under normal conditions of handling and use.

#### 10.2 Chemical stability

Avoid extremes of temperature, e.g. below 0°C and above 40°C.

#### 10.3 Possibility of hazardous reactions

None expected under normal conditions of handling and use.

#### 10.4 Conditions to avoid

None known.

#### 10.5 Incompatible materials

None known.

#### 10.6 Hazardous decomposition products

Above thermal decomposition temperature (>125°C) product will liberate strong lachrymatory methyl isocyanate. Methyl isocyanate has a very low flash point (-6°C) and will be rapidly consumed in the event of a fire.

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

#### 11.1 Information on toxicological effects

- **Acute Toxicity**
  - Oral: For bendiocarb (80% Wettable Powder): LD₅₀ (rat) 50 mg/kg.
  - Inhalation: For bendiocarb (80% Wettable Powder): LC₅₀ (rat) 0.313 mg/l, 6 h exposure.
  - Dermal: For bendiocarb (80% Wettable Powder): LD₅₀ (rat) > 2000 mg/kg.

- **Corrosivity/ Irritation**
  - Skin: Prolonged contact may cause dryness of the skin.
  - Eyes: May cause temporary discomfort due to mechanical irritation.
  - Respiratory tract: Product may irritate respiratory system. Symptoms may include coughing, expectoration, sneezing and difficulty breathing due to upper respiratory tract irritation.

- **Sensitisation**
  - Skin: Contains no known skin sensitisers.
  - Respiratory: Contains no known respiratory sensitisers.
### SECTION 12 Ecological Information

#### 12.1 Toxicity

**General information**
This product is classified as 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 bendiocarb:
  - Fish: LC₅₀ (96h), sheepshead minnow: 0.86 mg/L.
  - Daphnia: EC₅₀ (48h), *Daphnia magna*: 0.0377 mg/L.
  - Algae: EC₅₀ (48h), *Pseudokirchneriella subcapitata*: 0.408 mg/L.

#### 12.2 Persistence and degradability
Calcium carbonate is not biodegradable.

#### 12.3 Bioaccumulative potential

#### 12.4 Mobility in soil
The product is insoluble in water.

#### 12.5 Results of PBT and vPvB assessment
Not determined.

#### 12.6 Other Adverse Effects
None known.

### SECTION 13 Disposal Considerations

#### 13.1 Waste treatment methods
The best means of disposal of any product is through proper use according to the label. Disposal must be in accordance with Local, State or National Requirements.

**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.


**Substances making the waste hazardous:**
- Bendiocarb*\/*2,2-dimethyl-1,3-benzodioxol-4-yl N-methylcarbamate

**Concentrations (%):**
- 0.5

**Note for Disposal**
The best means of disposal of any product is through proper use. 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)**

#### 14.1 UN number
UN3077

#### 14.2 UN Proper Shipping Name
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (contains bendiocarb)

#### 14.3 Transport hazard class(es)
9
### ADR HIN
90

### UK Hazchem EAC
2Z

### IMDG EMS
F-A, S-F

<table>
<thead>
<tr>
<th>14.4 Packing Group</th>
<th>III</th>
</tr>
</thead>
<tbody>
<tr>
<td>Transport Category</td>
<td>3</td>
</tr>
</tbody>
</table>

### 14.5 Environmental hazards
Yes

### Marine pollutant
Yes

### Additional precautions
Not applicable.

### 14.6 Special precautions for user
Not required.

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

### 15.2 Chemical safety assessment

| Information to be made available according to ECHA review programme. |
### Abbreviations and acronyms

Typical standard abbreviations and acronyms used in Rentokil Initial Safety Data Sheets are as follows:

- **ADR 2011** - International Carriage of Dangerous Goods by Road (ADR)
- **ADR HIN** - ADR Hazard Identification Number (HIN)
- **Annex I DNEL or PNEC** - Derived No Effect Level / Predicted No Effect Concentration
- **CAS No** - Chemicals Abstract Service Registry Number
- **COSHH assessments** - Control of Substances Hazardous to Health
- **ECHA** - European Chemicals Agency
- **EC No** - European Commission number
- **EN469** - European standard for Personal Protective Equipment used for fire fighting
- **EN standards for PPE** - European Standards for Personal Protective Equipment
- **EWC** - European Waste Catalogue Code
- **IMDG 2010** - International Maritime Dangerous Goods (IMDG) Code
- **IUPAC** - International Union of Pure and Applied Chemistry
- **LD<sub>50</sub>** - Median lethal dose
- **LC<sub>50</sub>** - Lethal concentration
- **REACH** - Registration, Evaluation, Authorisation and Restriction of Chemicals
- **RIS Code** - Internal manufacturing code number
- **WEL** - Workplace Exposure Limit
- **UK Hazchem EAC** - UK Hazchem Emergency Action Code

### Typical Directives and Regulations referred to Rentokil Initial Safety Data Sheets are as follows:

- **Commission Decision 95/320/EC** - Scientific Committee for Occupational Exposure Limits to Chemical Agents
- **Commission Decision 2000/532/EC** - List of wastes
- **Commission Decision 2001/118/EC** - Amendment to 2000/532/EC with regards to List of wastes
- **Directive 76/768/EC (as amended)** - The Cosmetics Directive
- **Regulation (EC) No 1272/2008** - Classification, Labelling and Packaging
| **Key literature references and sources for data** | For details of the data and information sources used, please contact Rentokil Initial using the details in Section 1. |
| **Risk phrase/Hazard statement text** (From section 3 - These refer to the ingredients only. See section 2 for the product risk phrases) | R21: Harmful in contact with skin.  
R23/25: Toxic by inhalation and if swallowed.  
R50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
Hazard statements are a requirement of Regulation (EC) No. 1272/2008 and will be listed when available. |
| **Training advice** | Always read the label and product information before use. Ensure you have received adequate training and or instructions before use. |
| **Further Information** | A white plastic bottle with a red screw top containing 150g, 300g or 500g of product. |