

# Safety Data Sheet

NOTE: Access to a copy of this Safety Data Sheet (SDS) via our Website does not constitute the issue of a controlled Copy under EU legislation. To be issued with such a copy please contact Rentokil Initial using the details below. In order to confirm the latest version of the SDS for this product visit <http://www.rentokil-initial.com/sds/rentokil-products/>

Issue : 05 16 : 02 : 2009

1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY		
<b>Product Name</b>	<b>ANT &amp; INSECT KILLER POWDER</b>	<b>HSE 5810</b>
<b>Description</b>	A fine, off-white powder with no perceptible odour. For amateur use as an insecticidal dusting powder for the control of ants, woodlice, silverfish, cockroaches, earwigs, beetles and other crawling insects in the home and garden.	
<b>Company</b>	Rentokil Initial Supplies, Liverpool, L33 7SR. Product advice line: +44 (0)151 548 5050 Emergency line: +44 (0)1293 858 000 E-mail: <a href="mailto:sds@rentokil.com">sds@rentokil.com</a>	

2 HAZARD IDENTIFICATION		
<b>Classification (Supply – Use) : In compliance with EC Directive 1999/45.</b>		
<b>N Dangerous for the environment</b>	<b>R51/53</b>	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>		
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. Not expected to cause irritation to skin. Direct contact with eyes could lead to temporarily impaired vision. Symptoms of ingestion mainly as for inhalation plus nausea and vomiting.		
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
0.5	Bendiocarb* / 2,2-dimethyl-1,3-benzodioxol-4-yl methylcarbamate EINECS : 245-216-8 CAS : 22781-23-3	T : R23/25 X <sub>n</sub> : R21 N : R50,53
>25.0 ≤50.0	Talc EINECS : 238-877-9 CAS : 14807-96-6	Not classified. Substance with a Community Workplace Exposure Limit (refer to box 8).
>25.0 ≤50.0	Calcium carbonate EINECS : 207-439-9 CAS : 471-34-1	Not classified. Substance with a Community Workplace Exposure Limit (refer to box 8).
>1.0 ≤2.5	Quartz EINECS : 238-878-4 CAS : 14808-60-7	Not classified. Substance with a Community Workplace Exposure Limit (refer to box 8).
≤1.0	Silica, amorphous EINECS : 231-454-4 CAS : 7631-86-9	Not classified. Substance with a Community Workplace Exposure Limit (refer to box 8).

## ANT & INSECT KILLER 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.		
<b>Special Fire-Fighting Procedures</b>	Wear suitable personal protective equipment.		
<b>Special Exposure Hazards</b>	Above thermal decomposition temperature (>125°C), product will liberate strongly lachrymatory methyl isocyanate. Methyl isocyanate has a very low flash point (-6°C) and will be rapidly consumed in the event of a fire.		
<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 dust clouds, and transferred to a suitable container for subsequent disposal.		
<b>7 HANDLING AND STORAGE (SEE ALSO BOX 8)</b>			
<b>Handling</b>	Do not breathe dust. Wash hands and exposed skin before meals and after use.		
<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>	WHO Operator Exposure Standard for bendiocarb is 0.2mg/m <sup>3</sup> . Workplace Exposure Limit (WEL) for talc, respirable dust, is 1 mg/m <sup>3</sup> long-term exposure (8 hour Time Weighted Average (8 hr TWA)). WEL for calcium carbonate, inhalable dust and respirable dust is 10 mg/m <sup>3</sup> and 4 mg/m <sup>3</sup> long-term exposure (8hr TWA), respectively. WEL for silica, respirable crystalline (quartz) is 0.3 mg/m <sup>3</sup> long-term exposure (8hr TWA). Quartz is referred to as silica, respirable crystalline in Directive EC/98/24 (1 <sup>st</sup> IOELV Directive). WEL for silica, amorphous is 6 mg/m <sup>3</sup> long-term exposure (8hr TWA) for inhalable dust and 2.4 mg/m <sup>3</sup> for respirable dust.		
<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 fine, off-white power with no perceptible odour.		
<b>pH</b>	Not applicable.	<b>Solubility in Water</b>	Insoluble.
<b>Density</b>	0.6 g/cm <sup>3</sup> at 20°C	<b>Solubility in Other Solvents</b>	Insoluble.
<b>Flash Point</b>	Not applicable.	<b>Explosive Properties</b>	Not determined.
<b>Flammability</b>	Non-flammable.	<b>Combustibility</b>	Non-combustible.
<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.

## ANT & INSECT KILLER 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.
<b>Hazardous Breakdown Products</b>	Above thermal decomposition temperature (>125°C), product will liberate strongly lachrymatory methyl isocyanate. Methyl isocyanate has a very low flash point (-6°C) and will be rapidly consumed in the event of a fire.

## 11 TOXICOLOGICAL INFORMATION (SEE ALSO BOX 2)

<b>Acute Toxicity</b>	Oral	For bendiocarb (80%): LD <sub>50</sub> (rat) : 179mg/kg.
	Inhalation	For bendiocarb (80%): LC <sub>50</sub> (rat) (6hr) : 0.313 mg/L.
	Dermal	For bendiocarb (80%): LD <sub>50</sub> (rat) : >1000 mg/kg.
<b>Corrosivity/Irritation</b>	Skin	Prolonged contact may cause dryness of the skin.
	Eyes	May cause a temporary discomfort due to mechanical irritation.
	Respiratory tract	Symptoms may include coughing, expectoration, sneezing and difficulty breathing due to upper respiratory tract and lung irritation.
<b>Sensitisation</b>	Skin	Contains no known skin sensitisers.
	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 Development	Product does not contain any components known to have effects on fertility. Product does not contain any components known to be toxic to the reproductive system.
<b>Other Information</b>		This product contains an anticholinesterase compound. Do not use if under medical advice not to work with such compounds.


## 12 ECOLOGICAL INFORMATION

<b>General Information</b>	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.
<b>Ecotoxicity Data</b>	For bendiocarb : Daphnia: EC <sub>50</sub> (48hr) ( <i>Daphnia magna</i> ); 0.0377 mg/L Algae: EC <sub>50</sub> (48hr) ( <i>Pseudokirchneriella subcapitata</i> ); 0.408 mg/L
<b>Mobility</b>	The product is insoluble in water.
<b>Persistence and Degradability</b>	Calcium carbonate is not biodegradable.
<b>Bioaccumulative Potential</b>	For bendiocarb: Bioconcentration factor (BCF) to bluegill sunfish: 6
<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 waste washings or waste product to sewers, drains or watercourses. This product is for amateur use only and can therefore be disposed of as normal household waste. However, if used in a place of work, ensure this product is disposed of as hazardous waste, in accordance with the appropriate regulations.				
<b>Classification</b> (Council Directive 91/689/EC, Commission Decision 2000/532/EC (amended) Commission Decision 2001/118/EC)	Hazard Code: H14 - Ecotoxic				
<b>Note for Disposal</b>	<table border="0"><tr><td><u>Components making the waste hazardous</u></td><td><u>Concentrations (%)</u>:</td></tr><tr><td>Bendiocarb</td><td>0.5%</td></tr></table> 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. Local rate from anywhere in the UK: +44 (0) 870 850 6506.	<u>Components making the waste hazardous</u>	<u>Concentrations (%)</u> :	Bendiocarb	0.5%
<u>Components making the waste hazardous</u>	<u>Concentrations (%)</u> :				
Bendiocarb	0.5%				

## ANT & INSECT KILLER POWDER

14 TRANSPORT INFORMATION (INTERNATIONAL UNLESS OTHERWISE INDICATED)				
UN No.	UN3077	Tremcard Reference No.	90GM7-III	RIS Code
Transport Category	3	UK Hazchem EAC	2Z	PSG14 PSA134 PSA135 PSA143
ADR 2007 (International Road) Proper Shipping Name	Class 9 ADR HIN 90 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Contains bendiocarb).			Labels 
Limited Quantity Exemptions	Maximum quantity per inner receptacle is 6 kg. Maximum quantity per outer package is 30 kg. Combination packs only.			
Special Requirements	Not required. Packing Group III			
IMDG 2006 (Sea) Proper Shipping Name	Class 9 IMDG EMS F-A, S-F ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Contains bendiocarb).			
Limited Quantity Exemptions	Maximum quantity per inner receptacle is 5 kg. Maximum quantity per outer package is 30 kg. Combination packs only.			
Special Requirements	Not required. Packing Group III			
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	S29 Do not empty into drains. S35 This material and its container must be disposed of in a safe way.
Additional Label Phrases	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. 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. 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. Other National measures or guidance should be followed where appropriate.

### 16 Other Information and indication of revisions

Packaging Information	A white plastic bottle with a red screw top containing 150g, 300g or 500g of product.
Revisions	Changes have been made to the content of boxes 01, 02, 03, 04, 05, 06, 08, 09, 11, 12, 13, 14, 15 & 16 (as indicated by the thick lines on the left-hand side of the boxes) compared with issue 04.
Risk phrase text	R23/25 : Toxic by inhalation and if swallowed. R21 : Harmful in contact with skin. R50,53 : Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

## ANT & INSECT KILLER POWDER

SDS No. 551

Issue : 05

16 : 02 : 2009

Page 4 of 4

**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.

Copyright © (2009) Rentokil Initial plc, European Technical Centre, Units 7 & 8 Foundry Court, Foundry Lane, Horsham, West Sussex. RH13 5PY. United Kingdom.

Telephone: +44 (0) 1293 858000 Fax: +44 (0) 1403 214101 Web: <http://www.rentokil-initial.com/sds/rentokil-products/>