

Safety Data Sheet

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REVISION (see box 16)

Issue : 7

25 : 04 : 2014

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.	R51/53
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2.2 Label elements

	Dangerous for the environment.	
Risk phrase(s) (R), in full / Hazard statement(s) (H), in full.	R51/53: 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)

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
0.504	Bendiocarb*/2,2-dimethyl-1,3-benzodioxol-4-yl N-methylcarbamate	22781-23-3	245-216-8	006-046-00-8	-	T: R21 R23/25 N: R50/53	Acute Tox. 3 : H301 H331 Acute Tox. 4 : H312 Aquatic Chronic 2 : H411
<50.0	Talc/Chlorite*	14807-96-6/ 1318-59-8	238-877-9/215-285-9	-	-	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)	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".
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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.
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SECTION 6 Accidental Release Measures

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

SECTION 7 Handling and Storage

7.1 Precautions for safe handling	Do not breathe dust.
7.2 Conditions for safe storage, including any incompatibilities	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.
7.3 Specific end use(s)	Insecticide.

SECTION 8 Exposure Controls/Personal Protection

8.1 Control Parameters

Exposure standard - Directive 98/24/EC (1st IOELV Directive)	Workplace Exposure Limit (WEL) long-term exposure (8 hour Time Weighted Average)	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 .
	Workplace Exposure Limit (WEL) short-term exposure (15 minute reference period)	Not applicable.
	Substance name used in Directive EC/98/24 (1st IOELV Directive)	Not applicable.

8.2 Exposure Controls

Appropriate engineering controls	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:
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 applicable.	Solubility in water	Insoluble.
Density	0.6g/cm ³ at 20 C	Solubility in other solvents	Insoluble.
Relative density	Not determined.	Explosive properties	Not determined.
Flash point	Not applicable.	Combustibility	Non-combustible.
Flammability	Non-flammable.	Oxidising properties	Not determined.
Initial boiling Point and boiling range	Not applicable.	Evaporation rate	Not applicable.
Vapour Density	Not applicable.	Partition coefficient: n-octanol/water	Not applicable.
Vapour pressure	Not applicable.	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 determined.	Other safety information	None known.
Viscosity	Not applicable.		

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): LD ₅₀ (rat) 50 mg/kg.
	Inhalation	For bendiocarb (80% Wettable Powder): LC ₅₀ (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.

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	This product contains an anticholinesterase compound. Do not use if under medical advice not to work with such compounds.	

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: LC ₅₀ , (96h), sheepshead minnow: 0.86 mg/L. Daphnia: EC ₅₀ , (48h), <i>Daphnia magna</i> : 0.0377 mg/L. Algae: EC ₅₀ , (48h), <i>Pseudokirchneriella subcapitata</i> : 0.408 mg/L.
12.2 Persistence and degradability	Calcium carbonate is not biodegradable.
12.3 Bioaccumulative potential	For bendiocarb (80% Wettable Powder): Bioconcentration Factor (BCF): 6, <i>Lepomis macrochirus</i> (Bluegill sunfish).
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.

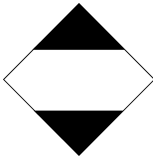
SECTION 13 Disposal Considerations

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.	
Classification (Council Directive 91/689/EC, Commission Decision 2000/532/EC (amended) Commission Decision 2001/118/EC))	Hazard Code: H14 - Ecotoxic.	
	Substances making the waste hazardous:	Concentrations (%):
	Bendiocarb*/2,2-dimethyl-1,3-benzodioxol-4-yl N-methylcarbamate	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	RIS Code	150g/300g/500g PSA134/PSA135/PSA143
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	
14.4 Packing Group	III	Labels 
Transport Category	3	
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.

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 6.
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) 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 LD₅₀ - Median lethal dose LC₅₀ - 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</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 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 67/548/EEC - Dangerous Substances Directive Directive 76/768/EC (as amended) - The Cosmetics Directive Directive 89/686/EEC - The Personal Protective Equipment (PPE) Directive Directive 91/689/EC - Directive on Hazardous waste 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 Regulation (EC) No 1907/2006 - REACH (Registration, Evaluation, Authorisation and restriction of Chemicals) Regulation (EC) No 453/2010-amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) Directive 1999/45/EC - Dangerous Preparations Directive Directive 2004/37/EC - Carcinogens and Mutagens Directive Regulation (EC) No. 648/2004 - Detergents Regulation Regulation (EC) No 1272/2008 - Classification, Labelling and Packaging</p>

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.
Classification and used classification procedure for mixtures labelled to Directive 1999/45/EC according to Regulation (EC) No 1272/2008	Not currently classified to Regulation (EC) No. 1272/2008 until 31/05/2015.
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.

ANT AND INSECT KILLER POWDER

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

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