


Safety Data Sheet

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Issue : 01 10:03:2011

1 IDENTIFICATION OF THE MIXTURE AND COMPANY		
Product identifier	INSECTABAN POWDER	HSE 5386 PCS 96200
Relevant identified uses of the mixture and uses advised against	A fine, off white, odourless powder for professional use as an insecticide. Part of the Deadline Range.	
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	As above.	
Emergency telephone number	0844 892 011 (for use by medical professionals only).	

2 HAZARDS IDENTIFICATION		
Classification according to Regulation (EC) No 1272/2008 (See section 16)		
See section 16 / Not applicable.		
Classification according to Directive 1999/45/EC (See section 16)		
N	Dangerous for the environment	R51/53
Label elements		
	Dangerous for the environment.	
Risk phrase(s) (R), in full.	R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.	
Safety phrase(s) (S), in full.	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). S57: Use appropriate container to avoid environmental contamination. S61: Avoid release to the environment. Refer to special instructions/safety data sheets.	
Contains 0.96% w/w Bendiocarb. To avoid risks to man and the environment, comply with the instructions for use. Safety Data Sheet available to professional user on request.		
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.		
No other significant adverse effects expected under normal conditions of handling and use.		

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3 COMPOSITION/INFORMATION ON INGREDIENTS (See section 16)							
% w/w	Common*/ Chemical Name (IUPAC)	CAS No.	EC No.	Index No.	Regulation (EC) No 1907/2006 (REACH) Registration No.	Directive 67/548/EEC classification	Regulation (EC) No 1272/2008 classification
1.0	Bendiocarb*/2,2-dimethyl-1,3-benzodioxol-4-yl methylcarbamate	22781-23-3	245-216-8	006-046-00-8	-	T: R23/25 X _n : R21 N: R50/53	Not available.
>25.0 ≤50.0	Talc	14807-96-6	238-877-9	-	-	Not classified. Substance with a Community Workplace Exposure Limit (refer to Section 8)	Not classified. Substance with a Community Workplace Exposure Limit (refer to Section 8)
>25.0 ≤50.0	Calcium carbonate	471-34-1	207-439-9	-	-	Not classified. Substance with a Community Workplace Exposure Limit (refer to Section 8)	Not classified. Substance with a Community Workplace Exposure Limit (refer to Section 8)
≤1	Quartz	14808-60-7	238-878-4	-	-	Not classified. Substance with a Community Workplace Exposure Limit (refer to Section 8)	Not classified. Substance with a Community Workplace Exposure Limit (refer to Section 8)
≤0.1	Silica, amorphous	7631-86-9	231-545-4	-	-	Not classified. Substance with a Community Workplace Exposure Limit (refer to Section 8)	Not classified. Substance with a Community Workplace Exposure Limit (refer to Section 8)

4 FIRST-AID MEASURES	
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.
Emergency Equipment Suggested	Appropriate first-aid equipment should be provided.
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.

5 FIRE FIGHTING MEASURES	
Suitable extinguishing media	Use carbon dioxide, foam, water or dry powder extinguishers.
Unsuitable extinguishing media	Not specified.
Special hazards arising from the mixture	Decomposes above 125°C liberating toxic fumes of methyl isocyanate that are strongly lachrymatory and carbon dioxide.
Advice for fire-fighters	Wear suitable personal protective equipment conforming to EN469.

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6 ACCIDENTAL RELEASE MEASURES	
Personal precautions, protective equipment and emergency procedures	Wear suitable personal protective equipment.
Environmental Precautions	This product is classified as dangerous for the environment. Keep away from drains, surface and ground water, and soil.
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 of subsequent disposal.
Reference to other sections	Please also see sections 8 and 13 for further information.
Additional information	Clear spills immediately.

7 HANDLING AND STORAGE	
Precautions for safe handling	Do not breathe dust.
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.
Specific end use(s)	Insecticide.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION		
Exposure standard - Directive 98/24/EC (1st IOELV Directive)	Workplace Exposure Limit (WEL) long-term exposure (8 hour Time Weighted Average).	For: Bendiocarb is 0.2 mg/m ³ Silica, amorphous (inhalable dust) is 6 mg/m ³ Silica, amorphous (respirable dust) is 2.4 mg/m ³ Calcium carbonate (inhalable dust) is 10 mg/m ³ Calcium carbonate (respirable dust) is 4 mg/m ³ Talc (respirable) is 1 mg/m ³ Quartz is 0.1 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).	Quartz is referred to as Silica, crystalline respirable in Directive EC/98/24 (1 st IOELV Directive).
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:	
Eye/face protection	Suitable eye protection such as goggles.	
Hand protection	Suitable hand protection such as gloves.	
Skin/body protection	Suitable skin protection such as coveralls.	
Respiratory protection	Suitable respiratory protection such as Self-contained breathing apparatus (SCBA).	
Environmental Exposure Controls	Use only in accordance with instructions given.	

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9 PHYSICAL AND CHEMICAL PROPERTIES			
Appearance and odour/odour threshold	A fine, off-white powder with no perceptible odour.		
pH	Not applicable.	Solubility in water	Virtually insoluble.
Density	Approximately 0.70 g/cm ³	Solubility in other solvents	Virtually insoluble.
Specific gravity	Not applicable.	Explosive properties	No known explosive properties.
Flash point	Not applicable.	Combustibility	Non-combustible.
Flammability	Non-flammable.	Oxidising properties	No known oxidising properties.
Boiling point/range	Not applicable.	Evaporation rate	Not applicable.
Vapour density	Not applicable.	Partition coefficient: n-octanol/water	Not applicable.
Vapour pressure	Not applicable.	Decomposition temperature	>125°C.
Melting point/freezing point	Not applicable.	Auto-ignition temperature	Not applicable.
Upper/lower flammability or explosive limits	Not applicable.	Other safety information	None known.
Viscosity	Not applicable.		

10 STABILITY AND REACTIVITY	
Reactivity	This product is stable under normal conditions of handling and use.
Chemical stability	This product is stable under normal conditions of handling and use.
Possibility of hazardous reactions	None expected under normal conditions of handling and use.
Conditions to avoid	Avoid extremes of temperature, e.g. below 0°C and above 40°C.
Incompatible materials	Avoid contact with acids.
Hazardous decomposition products	Decomposes above 125°C liberating toxic fumes of methyl isocyanate that are strongly lachrymatory and carbon dioxide.

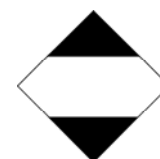
11 TOXICOLOGICAL INFORMATION (SEE ALSO BOX 2)		
Acute Toxicity	Oral	For Bendiocarb (80% Wettable Powder): LD ₅₀ (rat) 50 mg/kg.
	Inhalation	For Bendiocarb (80% Wettable Powder): LC ₅₀ (rat) 0.313 mg/l, 6 h exposure.
	Dermal	For Bendiocarb (80% Wettable Powder): LD ₅₀ (rat) > 2000 mg/kg.
Corrosivity/Irritation	Skin	For Bendiocarb (80% Wettable Powder): Non-irritant (rabbits). Prolonged or repeated exposure with product may cause skin dryness.
	Eyes	For Bendiocarb (80% Wettable Powder): Non-irritant (rabbits). Product may cause irritation and smarting.
	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.
Repeat-Dose Toxicity	For Bendiocarb: NOEL (rats) 10 mg/kg diet, 90 d and 3 y.	
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.
	Development	Product does not contain any components known to be toxic to the reproductive system.
Other Information	None known.	

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12 ECOLOGICAL INFORMATION	
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 (80% Wettable Powder): Fish (<i>Oncorhynchus mykiss</i>) LC ₅₀ (96 h) 0.87 mg/L Daphnia (<i>Daphnia magna</i>) EC ₅₀ (48 h) 0.0377 mg/L Algae (<i>Pseudokirchneriella subcapitata</i>) EC ₅₀ (48 h) 0.408 mg/L Toxic to bees.
Persistence and Degradability	Not determined.
Bioaccumulative Potential	For Bendiocarb (80% Wettable Powder): Bioconcentration factor (BCF): 6, <i>Lepomis macrochirus</i> .
Mobility	Not determined.
Results of PBT and vPvB assessment	Not determined.
Other Adverse Effects	None known.

13 DISPOSAL CONSIDERATIONS				
Waste treatment methods	All pesticide waste should be disposed of using EWC code EWC: 20 01 19. If plastic or metal container is empty and triple rinsed, it can be disposed of as non-hazardous controlled waste.			
Product/packaging disposal	This product is dangerous for the environment. Do not discharge to sewers, drains or watercourses. This product must be disposed of as hazardous waste. The empty container may be disposed of as controlled waste in accordance with the appropriate regulations.			
Classification (Council Directive 91/689/EC, Commission Decision 2000/532/EC (amended) Commission Decision 2001/118/EC))	EWC: 20 01 19 Hazard Code: H14 - Ecotoxic			
	<table border="1"> <thead> <tr> <th>Substances making the waste hazardous</th> <th>Concentrations (%):</th> </tr> </thead> <tbody> <tr> <td>Bendiocarb</td> <td>1.0</td> </tr> </tbody> </table>	Substances making the waste hazardous	Concentrations (%):	Bendiocarb
Substances making the waste hazardous	Concentrations (%):			
Bendiocarb	1.0			
Note for Disposal	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.			

14 TRANSPORT INFORMATION (INTERNATIONAL UNLESS OTHERWISE INDICATED)				
UN No.	UN3077			RIS Code
Transport Category	3	UK Hazchem EAC	2Z	PSD89 6 x 600g
ADR 2011 (International Road)	Class 9	ADR HIN	90	Labels
Proper Shipping Name	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 30kg. Combination packs only.			
Special provisions	Not required.		Packing Group	III
IMDG 2010 (Sea)	Class 9	IMDG EMS	F-A, S-F	
Proper Shipping Name	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 30kg. Combination packs only.			
Special provisions	Not required.		Packing Group	III
Note for Transport	Local, State or National requirements may apply to the carriage of this product.			



15 REGULATORY INFORMATION	
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.
Chemical safety assessment	Information to be made available according to ECHA review programme.

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16 OTHER INFORMATION																																																															
Revisions	Not applicable.																																																														
Abbreviations and acronyms	<p>Typical standard abbreviations and acronyms used in Rentokil Initial Safety Data Sheets are as follows:</p> <table border="0"> <tr> <td>ADR 2011</td> <td>International Carriage of Dangerous Goods by Road (ADR)</td> </tr> <tr> <td>ADR HIN</td> <td>ADR Hazard Identification Number (HIN)</td> </tr> <tr> <td>Annex I DNEL or PNEC</td> <td>Derived No Effect Level / Predicted No Effect Concentration</td> </tr> <tr> <td>CAS No</td> <td>Chemicals Abstract Service Registry Number</td> </tr> <tr> <td>COSHH assessments.</td> <td>Control of substances hazardous to health</td> </tr> <tr> <td>ECHA</td> <td>European Chemicals Agency</td> </tr> <tr> <td>EC No</td> <td>European Commission number</td> </tr> <tr> <td>EN469</td> <td>European standard for Personal Protective Equipment used for fire fighting.</td> </tr> <tr> <td>EN standards for PPE</td> <td>European Standards for Personal Protective Equipment</td> </tr> <tr> <td>EWC</td> <td>European Waste Catalogue Code</td> </tr> <tr> <td>IMDG 2010</td> <td>International Maritime Dangerous Goods (IMDG) Code</td> </tr> <tr> <td>IUPAC</td> <td>International Union of Pure and Applied Chemistry</td> </tr> <tr> <td>LD₅₀</td> <td>Median lethal dose</td> </tr> <tr> <td>LC₅₀</td> <td>Lethal concentration 50</td> </tr> <tr> <td>REACH</td> <td>Registration, Evaluation, Authorisation and restriction of Chemicals</td> </tr> <tr> <td>RIS Code</td> <td>Internal manufacturing code number</td> </tr> <tr> <td>WEL</td> <td>Workplace Exposure Limit</td> </tr> <tr> <td>UK Hazchem EAC</td> <td>UK Hazchem Emergency Action Code</td> </tr> </table> <p>Typical Directives and Regulations referred to Rentokil Initial Safety Data Sheets are as follows:</p> <table border="0"> <tr> <td>Commission Decision 95/320/EC</td> <td>Scientific Committee for Occupational Exposure Limits to Chemical Agents</td> </tr> <tr> <td>Commission Decision 2000/532/EC</td> <td>List of wastes</td> </tr> <tr> <td>Commission Decision 2001/118/EC</td> <td>Amendment to 200/532/EC with regards to List of wastes</td> </tr> <tr> <td>Directive 67/548/EEC</td> <td>Dangerous Substances Directive</td> </tr> <tr> <td>Directive 89/686/EEC</td> <td>The Personal Protective Equipment (PPE) Directive</td> </tr> <tr> <td>Directive 91/689/EC</td> <td>Directive on Hazardous waste</td> </tr> <tr> <td>Directive 98/24/EC (1st IOELV Directive)</td> <td>Chemical Agents Directive 98/24/EC Protection of the Health and Safety of Workers from the Risks from Chemical Agents. 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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 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 statement text (From section 3 - These refer to the ingredients only. See section 2 for the product risk phrases)	Hazard statements are a requirement of Regulation (EC) No. 1272/2008 and will be listed when available.																																																														
Training advice	Use biocides safely. Always read the label and product information before use. Ensure you have received adequate training and or instructions before use.																																																														
Further information	A white, 600g plastic container, supplied in 6 x 600g shrink-wrapped packages.																																																														

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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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