

Safety Data Sheet

DATE : 20 : 07 : 95

ISSUE NO : 02

1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND COMPANY

PRODUCT NAME :	RENTOKIL ANT AND INSECT POWDER PROFESSIONAL
DESCRIPTION :	A fine, off-white powder with no perceptible odour. For professional use as an insecticide for the control of a wide range of arthropod pests in public hygiene situations.
COMPANY :	Rentokil Ltd, Environmental Health Products Division, Felcourt, East Grinstead, West Sussex. RH19 2JY. England. Telephone: +44 (0)1342 833022 Facsimile: +44 (0)1342 326229

2. HAZARDS IDENTIFICATION

CLASSIFICATION (SUPPLY - Use): UK COPR (Control of Pesticide Regulations, 1986) / EC Directive 78/631.	DANGER SYMBOL (UK COPR):
NOT CLASSIFIED	NOT REQUIRED
<p>SYMPTOMS AND EFFECTS (see also box 11):</p> <p>This product contains a cholinesterase inhibitor carbamate compound. Inhalation may cause dizziness, headache, excessive sweating, abdominal pains, salivation, lachrymation, bradycardia, bronchoconstriction, muscular twitching, unconsciousness, convulsions and paralysis. Not expected to cause irritation to skin. Direct contact with the eyes could lead to temporarily impaired vision. Symptoms of ingestion mainly as for inhalation plus nausea and vomiting.</p>	

3. COMPOSITION / INFORMATION ON INGREDIENT(S)

% w/w	COMMON*/CHEMICAL NAME AND CAS No OF INGREDIENT(S)
1.00	Bendiocarb* / 2,2-dimethyl-1,3-benzodioxol-4-yl methylcarbamate / [22781-23-3]

4. FIRST-AID MEASURES (see also "symptoms and effects" in box 2)

INHALATION (Breathing)	: 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 1 pint of water to drink. Seek medical attention.
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".
NOTE TO DOCTOR	: For further information contact the National Poisons Information Service in the UK.

5. FIRE-FIGHTING MEASURES

FIRE EXTINGUISHER - TYPES	: Use water, foam, dry powder or carbon dioxide.
SPECIAL FIRE-FIGHTING PROCEDURES	: Wear self-contained breathing apparatus to protect against dust or fumes.
SPECIAL EXPOSURE HAZARDS	: 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.

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS (see also box 8)	: Wear suitable personal protective equipment.
PROCEDURE (see also box 13)	: Spills should be swept up carefully, avoiding the formation of a dust cloud, and transferred into a suitable container for subsequent disposal. DO NOT contaminate watercourses or ground.

7. HANDLING AND STORAGE (see also box 8)

HANDLING : Wear suitable protective clothing (coveralls) and synthetic rubber/PVC gloves when using. Do not breathe dust. Wash hands and exposed skin before meals and after use. Wash dust from skin and eyes immediately.	STORAGE : Store in original container in a cool, dry place out of reach of children and away from food, drink and animal feeding stuffs.
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8. EXPOSURE CONTROLS / PERSONAL PROTECTION (see also box 7)

OCCUPATIONAL EXPOSURE LIMITS	: WHO recommended limits for bendiocarb 0.2 mg/m ³ long-term exposure (8hr Time Weighted Average) and 0.6 mg/m ³ short-term exposure (10 minute reference period).
ENGINEERING CONTROLS	: Where prevention of exposure is not reasonably practicable, adequate control of exposure should be achieved by engineering controls rather than the provision of personal protective equipment and clothing. Suitable and approved personal protective equipment and clothing may include the following item(s):
EYE PROTECTION	: Wear suitable eye protection such as goggles.
HAND PROTECTION	: Wear suitable hand protection such as synthetic rubber/PVC gloves.
SKIN PROTECTION	: Wear suitable skin protection such as coveralls.
BREATHING PROTECTION	: Do not breathe dust. Otherwise wear suitable respiratory protection such as a dust mask.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AND ODOUR	: A fine, off-white powder with no perceptible odour.		
FLASH POINT	: Not applicable, contains no flammable components.	SOLUBILITY IN WATER	: Not easily wetted or dispersed in water.
FLAMMABILITY	: Non-combustible, but evolves toxic fumes on heating.	SOLUBILITY IN FAT	: Virtually insoluble.
AUTOFLAMMABILITY	: Not applicable, contains no flammable components.	PARTITION COEFFICIENT	: Not considered relevant, product is a preparation.
VAPOUR PRESSURE	: Not applicable, product contains no volatile components.	BOILING POINT/RANGE	: Decomposes > 125°C liberating toxic fumes.
BULK DENSITY	: 0.70 g/ml (packed).	MELTING POINT/RANGE	: Not considered relevant, product is solid under normal conditions of use and storage.
		pH	: Not applicable, product is not an aqueous solution.
OXIDISING PROPERTIES	: Contains no oxidising components.		
EXPLOSIVE PROPERTIES	: Contains no explosive components.		
OTHER DATA	: None known.		

10. STABILITY AND REACTIVITY

CONDITIONS TO AVOID	MATERIALS TO AVOID	HAZARDOUS BREAKDOWN PRODUCTS
Avoid extremes of temperature, eg. below 0°C and above 50°C.	None known.	Thermal decomposition will liberate strongly lachrymatory fumes of methyl isocyanate which has a very low flash point (-6°C). Methyl isocyanate will be rapidly consumed in the event of a fire but could persist in decompositions without fire.

11. TOXICOLOGICAL INFORMATION (see also box 2)

INHALATION	INGESTION	SKIN CONTACT	EYE CONTACT
Inhalation may cause dizziness, headache, excessive sweating, abdominal pains, salivation, lachrymation, bradycardia, bronchoconstriction, muscular twitching, unconsciousness, convulsions and paralysis.	LD ₅₀ (oral) rat : Product : 12000 mg/kg. Symptoms mainly as for inhalation plus nausea and vomiting.	LD ₅₀ (dermal) rat : Product : >5000 mg/kg. Not expected to cause irritation to skin.	Direct contact with eyes could cause constriction leading to temporarily impaired vision, but this is self-limiting and usually lasts for approximately 3-4 hours.
CHRONIC EFFECTS (DUE TO LONG/REPEATED EXPOSURE) : No evidence of long-term chronic effects at present.			

12. ECOLOGICAL INFORMATION

GENERAL INFORMATION	: DO NOT contaminate watercourses or ground.
ECOTOXICITY DATA	: The full ecotoxicological profile of this product has not been evaluated. Do not contaminate the environment. For bendiocarb: 96 hr LC ₅₀ (Rainbow trout) : 1.55 mg/l. 48 hr EC ₅₀ (<i>Daphnia</i>) : 0.16 mg/l. Harmful to fish and other aquatic life. Bendiocarb is toxic to bees.
ENVIRONMENTAL CONSIDERATIONS	: This product does not contain any substances which are classified as dangerous to the environment. Thus, when supplied, used and disposed of as directed this product is not expected to present a danger to the environment.

13. DISPOSAL CONSIDERATIONS

DISPOSAL OF WASTE	: Waste should be disposed of in accordance with local, State or National requirements.
DISPOSAL OF CONTAINERS	: Empty containers should be disposed of in accordance with local, State or National requirements.
NOTE FOR DISPOSAL	: Disposal should be in accordance with local, State or National requirements. For further advice about waste disposal, in the UK, contact the Waste Regulations Officer at your local authority.

14. TRANSPORT INFORMATION

UN Number	: Not required.
UK	: CDGCP Carriage : Not classified. HAZCHEM : EAC : Not required.
International	: Sea : IMDG : Not classified. Air : ICAO : Not classified. Road : ADR : Not classified. ADR HIN : Not required. SIN : Not required.

15. REGULATORY INFORMATION

HEALTH AND SAFETY INFORMATION (see also box 2)	
INDICATION OF DANGER :	
NOT CLASSIFIED	
STATUTORY PHRASES	: Wear suitable protective clothing (coveralls) and synthetic rubber/PVC gloves when using. Do not breathe dust. Wash hands and exposed skin before meals and after use. Wash dust from skin and eyes immediately. Harmful to fish and other aquatic life. Do not contaminate watercourses or ground. Dangerous to bees. Do not apply to surfaces on which food is stored, prepared or eaten. Cover food, food preparing equipment and eating utensils before application. Do not apply to clothing or bedding. Do not apply directly to animals. READ ALL PRECAUTIONS BEFORE USE.
LEGISLATION	: This product is approved, in the UK, under the Control of Pesticide Regulations (COPR) 1986, for use as directed. HSE No. 5386 This product is not classified, in the UK, under the Carriage of Dangerous Goods by Road and Rail (Classification, Packaging and Labelling) CDGCP Regulations 1994, as dangerous for carriage.

16. OTHER INFORMATION

The information given on this Safety Data Sheet (SDS) does not constitute an assessment in accordance with the Control of Substances Hazardous to Health (COSHH 94) Regulations 1994.
For use only by professional operators.
This product contains a cholinesterase inhibitor carbamate compound. DO NOT use if under medical advice not to work with such compounds.

SDS No. 424

RENTOKIL ANT AND INSECT POWDER PROFESSIONAL

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

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