



**CERTIFICATE OF REGISTRATION OF PESTICIDE/VECTOR
REPELLENT**

**ISSUED UNDER SECTION 8 OF THE CONTROL OF VECTORS AND PESTICIDES
ACT 1998**

Registration Number : SINNEAR-TrkPD/012/0045

This is to certify that

Name of Registrant : RENTOKIL INITIAL SINGAPORE PRIVATE
LIMITED

Address of Principal : 16 & 18 JALAN MESIN
Place of Business : SINGAPORE 368815

Company/Business Certificate No : 195900145N

**has been granted registration of the following pesticide for advertisement, sale and
supply in Singapore.**

Product Name : RENTOKIL BROMATROL CONTACT DUST

Active Ingredient : BROMADIOLONE

Content : BROMADIOLONE 0.150% W/W

Formulation : TRACKING POWDER

Manufacturer : RENTOKIL INITIAL UK LTD
FELCOURT
EAST GRINSTEAD, WEST SUSSEX
RH19 2JY
UNITED KINGDOM

The Certificate of Registration is issued subject to the conditions stated overleaf.

07 December 1999
Date of Registration


§ Director General of Public Health
Registration Authority

BROMATROL CONTACT DUST

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Date of issue:
Version: 12.0

Revision date: 29/02/2016

Rentokil

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

1.1. Product identifier

Product name : BROMATROL CONTACT DUST
Brand : Rentokil
Type of product : Biocide

Product form : Mixture

1.2. Relevant identified uses of the substance or mixture and uses advised against

1.2.1. Relevant identified uses

Use of the substance/mixture : A blue ready-to-use rodenticidal contact dust with no perceptible odour and a taste aversive agent. For use by professional operators in the control of rats and mice.
Main use category : Professional use
Industrial/Professional use spec : For professional use only
Use of the substance/mixture : Rodenticide

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Supplier

Rentokil Initial Supplies
Liverpool
L33 7SR
UK

Product advice line: +44 (0)151 548 5050
Email: sds@rentokil.com

1.4. Emergency telephone number

Emergency number : +44 (0)1342 833022

Country	Organisation/Company	Address	Emergency number
Ireland	National Poisons Information Centre Beaumont Hospital	PO Box 1297 Beaumont Road Dublin 9	+353 1 809 2566 '+353 1 809 2166 (public, 8am - 10pm, 7/7)
United Kingdom	National Poisons Information Service (Birmingham Centre) City Hospital, Guy's & St Thomas' Hospital Trust	Dudley Road Birmingham B18 7QH	0844 892 0111 (UK only, Monday to Friday, 08.00 to 18.00 hours)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Acute Tox. 4 (Oral) H302
Acute Tox. 4 (Inhalation:dust,mist) H332

Full text of hazard classes and H-statements : see section 16

Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

Xn; R20/22

Full text of R-phrases: see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

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according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP) :



GHS07

Signal word (CLP) :

Warning

Hazard statements (CLP) :

H302+H332 - Harmful if swallowed or if inhaled

Precautionary statements (CLP) :

P261 - Avoid breathing dust
P270 - Do not eat, drink or smoke when using this product
P301+P312 - IF SWALLOWED: call a POISON CENTER or doctor/physician if you feel unwell
P304+P340 - IF INHALED: remove victim to fresh air and keep at rest in a position comfortable for breathing
P330 - Rinse mouth
P501 - Dispose of contents/container to an approved waste disposal plant

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

3.2. Mixture

Name	Product identifier	%	Classification according to Directive 67/548/EEC
Kaolin substance with a Community workplace exposure limit substance with national workplace exposure limit(s) (GB, IE)	(CAS No) 1332-58-7 (EC no) 310-194-1	>= 75	Not classified
Silica substance with a Community workplace exposure limit substance with national workplace exposure limit(s) (GB, IE)	(CAS No) 14808-60-7 (EC no) 238-878-4	< 1	Not classified
Bromadiolone	(CAS No) 28772-56-7 (EC no) 249-205-9	0.15	T+; R26/27/28 T; R48/23/24/25 N; R50/53

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Kaolin substance with a Community workplace exposure limit substance with national workplace exposure limit(s) (GB, IE)	(CAS No) 1332-58-7 (EC no) 310-194-1	>= 75	Not classified
Silica substance with a Community workplace exposure limit substance with national workplace exposure limit(s) (GB, IE)	(CAS No) 14808-60-7 (EC no) 238-878-4	< 1	Not classified
Bromadiolone	(CAS No) 28772-56-7 (EC no) 249-205-9	0.15	Acute Tox. 1 (Oral), H300 Acute Tox. 1 (Dermal), H310 Acute Tox. 1 (Inhalation:dust,mist), H330 STOT RE 1, H372 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

Full text of R- and H-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

- First-aid measures general : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
- First-aid measures after inhalation : Assure fresh air breathing. Allow the victim to rest.
- First-aid measures after skin contact : Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.
- First-aid measures after eye contact : Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persist.
- First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

4.2. Most important symptoms and effects, both acute and delayed

- Symptoms/injuries : Not expected to present a significant hazard under anticipated conditions of normal use.

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according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray. Sand.
Unsuitable extinguishing media : Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

No additional information available

5.3. Advice for firefighters

Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire fighting water from entering the environment.
Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures : Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection.
Emergency procedures : Ventilate area.

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : On land, sweep or shovel into suitable containers. Minimize generation of dust. Store away from other materials.

6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Wear proper protective equipment. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep only in the original container in a cool, well ventilated place away from : food, drink and animal feedingstuffs. Keep container closed when not in use. Keep out of reach of children.
Incompatible products : Strong bases. Strong acids.
Incompatible materials : Sources of ignition. Direct sunlight.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Kaolin (1332-58-7)		
EU	IOELV TWA (mg/m ³)	2 mg/m ³ (United Kingdom)
EU	Notes	Poussière respirable
Ireland	Local name	Kaolin, respirable dust
Ireland	OEL (8 hours ref) (mg/m ³)	2 mg/m ³
United Kingdom	Local name	Kaolin, respirable dust
United Kingdom	WEL TWA (mg/m ³)	2 mg/m ³
Silica (14808-60-7)		
EU	IOELV TWA (mg/m ³)	0.1 mg/m ³ (United kingdom)
EU	Notes	Poussière respirable
Ireland	Local name	Quartz, respirable dust, (see Silica, crystalline)
Ireland	OEL (8 hours ref) (mg/m ³)	0.1 mg/m ³
United Kingdom	WEL TWA (mg/m ³)	0.1 mg/m ³ respirable dust

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8.2. Exposure controls

Personal protective equipment	: Avoid all unnecessary exposure.
Hand protection	: Wear protective gloves.
Eye protection	: Chemical goggles or safety glasses.
Respiratory protection	: Wear appropriate mask.
Other information	: Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Solid
Colour	: Blue.
Odour	: with no perceptible odour.
Odour threshold	: No data available
pH	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: Non flammable
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Density	: $\approx 0.37 \text{ g/m}^3$
Solubility	: insoluble.
Log Pow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: Contains no explosive components.
Oxidising properties	: No data available
Explosive limits	: No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available

10.2. Chemical stability

Not established.

10.3. Possibility of hazardous reactions

Not established.

10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

10.5. Incompatible materials

Strong acids. Strong bases.

10.6. Hazardous decomposition products

Fume. Carbon monoxide. Carbon dioxide.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Oral: Harmful if swallowed. Inhalation:dust,mist: Harmful if inhaled.

BROMATROL CONTACT DUST	
LD50 oral rat	1532 mg/kg
LD50 dermal rat	$\geq 2000 \text{ mg/kg}$

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BROMATROL CONTACT DUST	
ATE CLP (oral)	1532.000 mg/kg bodyweight
ATE CLP (dust,mist)	1.500 mg/l/4h

Bromadiolone (28772-56-7)	
LD50 oral rat	0.56 - 0.84 mg/kg
LD50 dermal rat	1.71 mg/kg
LC50 inhalation rat (mg/l)	0.00043 mg/l/4h

Skin corrosion/irritation	: Not classified Based on available data, the classification criteria are not met
Serious eye damage/irritation	: Not classified Based on available data, the classification criteria are not met
Respiratory or skin sensitisation	: Not classified Based on available data, the classification criteria are not met
Germ cell mutagenicity	: Not classified Based on available data, the classification criteria are not met
Carcinogenicity	: Not classified Based on available data, the classification criteria are not met
Reproductive toxicity	: Not classified Based on available data, the classification criteria are not met
Specific target organ toxicity (single exposure)	: Not classified Based on available data, the classification criteria are not met
Specific target organ toxicity (repeated exposure)	: Not classified Based on available data, the classification criteria are not met
Aspiration hazard	: Not classified Based on available data, the classification criteria are not met
Potential adverse human health effects and symptoms	: Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

12.1. Toxicity

Bromadiolone (28772-56-7)	
LC50 fish 1	> 1.4 mg/l 96hrs (O.mykiss)
EC50 Daphnia 1	2 mg/l 48hr (Daphnia magna)
ErC50 (algae)	0.17 mg/l 72hr (S.subspicatus)

12.2. Persistence and degradability

BROMATROL CONTACT DUST	
Persistence and degradability	Not established.

12.3. Bioaccumulative potential

BROMATROL CONTACT DUST	
Bioaccumulative potential	Not established.

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Other adverse effects

Additional information : Avoid release to the environment

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.
Ecology - waste materials : Avoid release to the environment.

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

14.1. UN number

Not regulated for transport

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14.2. UN proper shipping name

Not applicable

14.3. Transport hazard class(es)

Not applicable

14.4. Packing group

Not applicable

14.5. Environmental hazards

Dangerous for the environment : No
Marine pollutant : No
Other information : No supplementary information available.

14.6. Special precautions for user

14.6.1. Overland transport

No additional information available

14.6.2. Transport by sea

No additional information available

14.6.3. Air transport

No additional information available

14.6.4. Inland waterway transport

Carriage prohibited (ADN) : No

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

Not applicable

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions
Contains no substance on the REACH candidate list
Contains no REACH Annex XIV substances

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Data sources : REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

Other information : None.

Full text of R-, H- and EUH-statements:

Acute Tox. 1 (Dermal)	Acute toxicity (dermal), Category 1
Acute Tox. 1 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 1
Acute Tox. 1 (Oral)	Acute toxicity (oral), Category 1
Acute Tox. 4 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment — Chronic Hazard, Category 1
STOT RE 1	Specific target organ toxicity — Repeated exposure, Category 1
H300	Fatal if swallowed
H302	Harmful if swallowed
H310	Fatal in contact with skin
H330	Fatal if inhaled
H332	Harmful if inhaled
H372	Causes damage to organs through prolonged or repeated exposure

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H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects
R20/22	Harmful by inhalation and if swallowed
R26/27/28	Very toxic by inhalation, in contact with skin and if swallowed
R48/23/24/25	Toxic: danger of serious damage to health by prolonged exposure through inhalation, in contact with skin and if swallowed
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
N	Dangerous for the environment
T	Toxic
T+	Very toxic
Xn	Harmful

RI - SDS EU (REACH Annex II)

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. Neither Rentokil Initial plc nor any of its subsidiaries accepts any liability 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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